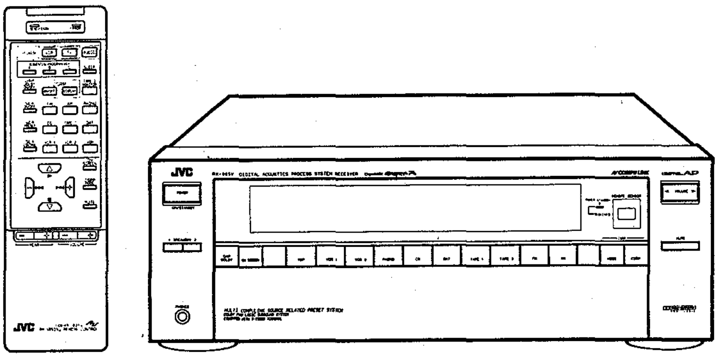
JVC

SERVICE MANUAL

DIGITAL SURROUND SYSTEM RECEIVER

RX-905VTN



AV COMPU LINK

COMPU LINK
//// Remote ////
Control Component

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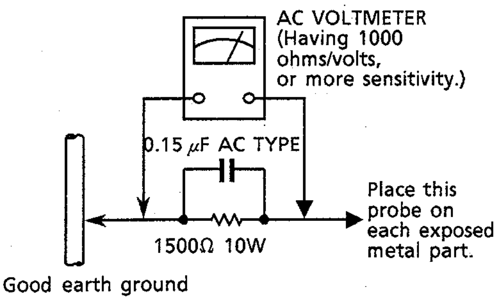
No. 20283
Nov. 1991

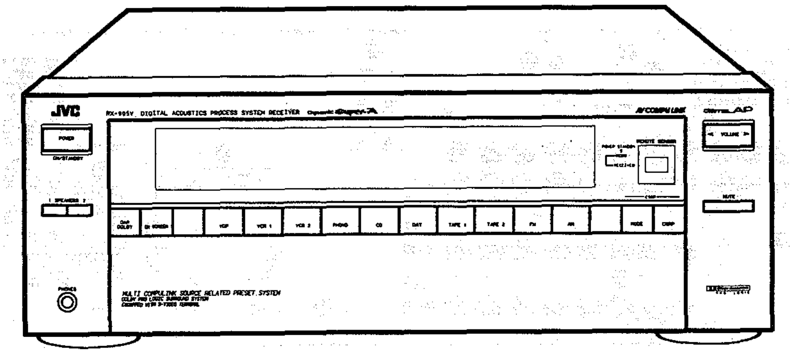
Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).


AC VOLTMETER
(Having 1000 ohms/volts, or more sensitivity.)
0.15 μF AC TYPE
Place this probe on each exposed metal part.
1500Ω 10W
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.


JVC
RX-905V DIGITAL ACOUSTICS PROCESS SYSTEM RECEIVER
POWER
ON/STANDBY
1 SPEAKERS 2
PHONES
REMOTE SENSOR
DAP DOLBY
ON SCREEN
VDP
VCR 1
VCR 2
PHONO
CD
DAT
TAPE 1
TAPE 2
FM
AM
MODE
CSRP
VOLUME
MUTE
MULTI COMPULINK SOURCE RELATED PRESET SYSTEM
DOLBY PRO LOGIC SURROUND SYSTEM
EQUIPPED WITH S-VIDEO TERMINAL

Thank you for purchasing this JVC product. Before you begin operating it, please read these instructions carefully to be sure you get the best possible performance. If you have any questions, consult your JVC dealer.

IMPORTANT NOTES

1. **Installation**
- Select a place which is level, dry, and neither too hot nor too cold (between −5 and 40 degrees Celsius/23 and 104 degrees Fahrenheit)
- Be sure there is adequate ventilation; poor ventilation may cause the unit to malfunction.
- Leave sufficient distance between the receiver and your TV.

2. **Power**
- Do not handle the power cord with wet hands!
- When unplugging from the wall outlet, always pull the plug, not the power cord.

3. **Malfunctions, etc.**
- Do not insert any metallic objects into the receiver.

CAUTION

To reduce the risk of electric shocks, fire, etc.:
1. Do not remove screws, covers, or cabinet.
2. Do not expose this appliance to rain or moisture.

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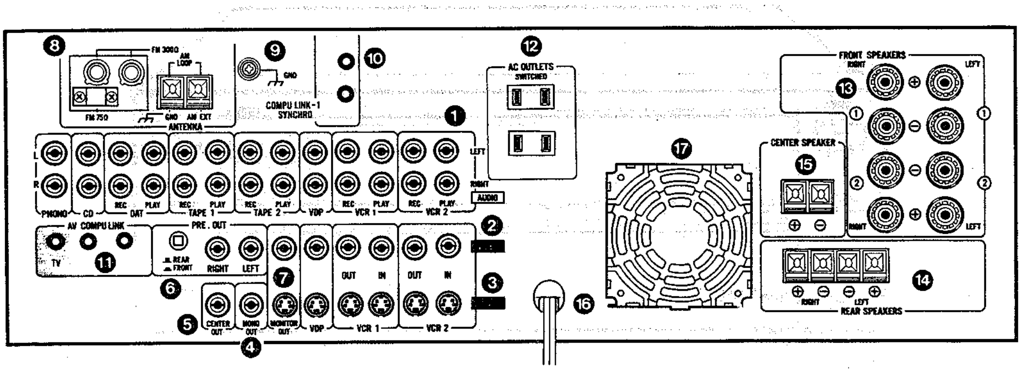
Rear Panel

- **Switch the power off when connecting any cables.**


❽
FM 300Ω
AM LOOP
FM 75Ω
GND AM EXT
ANTENNA
❾
GND
❿
COMPU LINK-1 SYNCHRO
❶
⓬
AC OUTLETS SWITCHED
FRONT SPEAKERS
RIGHT
LEFT
⓭
CENTER SPEAKER
⓯
⓱
L
R
PHONO
CD
REC PLAY DAT
REC PLAY TAPE 1
REC PLAY TAPE 2
VDP
REC PLAY VCR 1
REC PLAY VCR 2
LEFT
RIGHT
AUDIO
AV COMPU LINK
TV
⓫
PRE. OUT
REAR FRONT
RIGHT LEFT
❻
❼
OUT IN
OUT IN
❷
❸
❺
CENTER OUT
MONO OUT
MONITOR OUT
VDP
VCR 1
VCR 2
❹
⓰
RIGHT
LEFT
REAR SPEAKERS
⓮

❶ **AUDIO terminals**
(PHONO, CD, DAT, TAPE 1, TAPE 2, VDP, VCR 1, VCR 2)
— For audio signal connection

- Connect a turntable using a moving magnet (MM) type cartridge to the PHONO terminals.

❷ **VIDEO terminals**
(VDP, VCR 1, VCR 2)
— For video signal connection

❸ **S-VIDEO terminals**
(VDP, VCR 1, VCR 2)
— For S-video signal connection

❹ **MONO OUT terminal**
— Connect the amplifier to this terminal to emphasize the bass and connect a subwoofer to the speaker terminals of the extra amplifier.

❺ **CENTER OUT terminal**
— To reproduce signals on CENTER channel (when playing back with Surround-sound effect), connect an amplifier to this terminal, and then connect a speaker to the amplifier.

❻ **PRE. OUT SELECTOR**
PRE. OUT terminals
— Refer to the section "Using an External Amplifier".

❼ **MONITOR OUT terminals**
— Connect the video input terminals and S-video terminals of a TV.

❽ **ANTENNA terminals**

❾ **GND (ground) terminal**

❿ **COMPU LINK-1 SYNCHRO terminals**
— Connect to units provided with COMPU LINK-1 SYNCHRO terminals for the COMPU LINK remote control function.

- Do not connect the remote cable to the JVC cassette deck connected to the terminals other than TAPE 1.

⓫ **AV COMPU LINK terminals**
— Connect to JVC video components provided with AV COMPU LINK terminals for the AV COMPU LINK function.

⓬ **AC OUTLETS (SWITCHED)**

⓭ **FRONT SPEAKERS terminals**

⓮ **REAR SPEAKERS terminals**

⓯ **CENTER SPEAKER terminal**

⓰ **Power Cord**

⓱ **Cooling fan**
Excessive internal temperature rises in the receiver will start running the fan to cool its interiors for circuit protection.
To ensure full air ventilation, do not block the fan with objects.
The fan will not run in normal conditions.

Notes:
- When connecting components, connect their left and right channels correctly. If channels are reversed, the stereo effect will be degraded.
- The AC OUTLETS do not supply power when the power switch is turned off.
- Do not connect equipment requiring more than the outlet's rated value.

Antennas

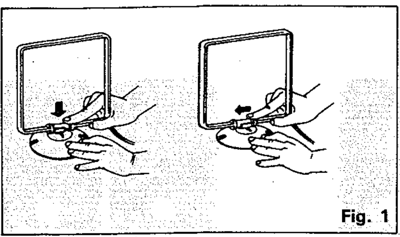


Fig. 1

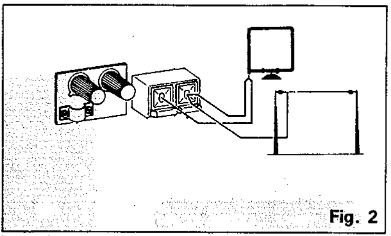


Fig. 2

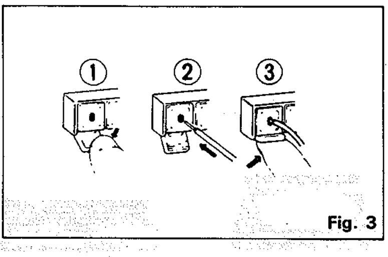


Fig. 3

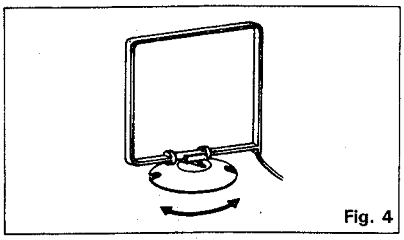


Fig. 4

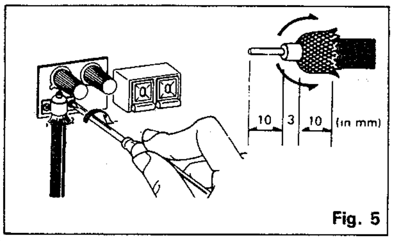


Fig. 5

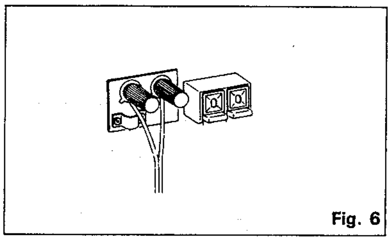


Fig. 6

AM antennas

Figure 1: How to assemble the AM loop antenna

Figure 2: AM loop antenna

This antenna is for the reception of local AM broadcasts.

Figure 2: AM external antenna

If AM reception is unsatisfactory, connect an external AM antenna (single-wire antenna) to the AM EXT terminal.

Figure 3: Connection of AM antenna

① Open antenna terminals levers.
② Plug cords into the terminals.
③ Close the levers.

Figure 4: Noise and interference

Change the direction of the loop antenna, or re-install it in a better position if the reception is noisy.

Notes:

- If the provided loop antenna is not connected or an uninsulated antenna wire touches the rear panel, it will be impossible to receive AM broadcasts.
- When installing an external AM antenna, leave the AM loop antenna connected.

FM antennas

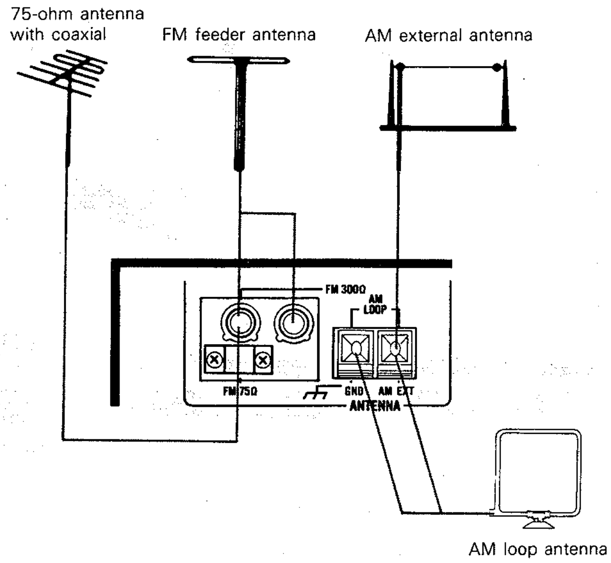
Figure 5: 75-ohm FM antenna with coaxial

Loosen the screws on the bracket and insert the cable through the ring from below. Connect the stripped core to the upper terminal then tighten the ring. The ring is the antenna ground.

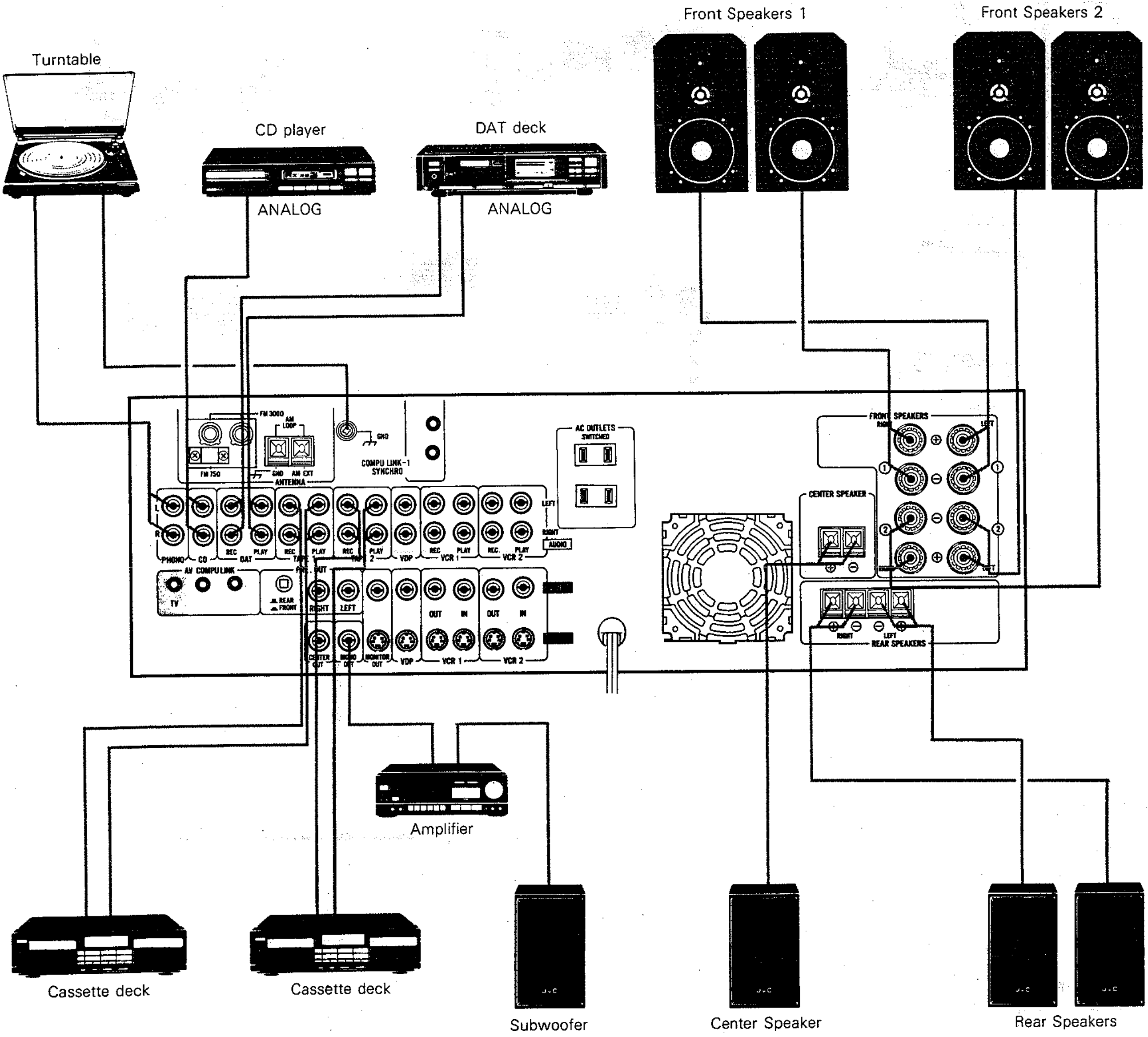
Figure 6: FM Feeder antenna

Connect to the FM 300 Ω terminals. Make sure the feeder antenna wires do not touch any other terminals.

Antenna Connections


75-ohm antenna with coaxial
FM feeder antenna
AM external antenna
FM 300Ω
AM LOOP
FM 75Ω
GND
AM EXT
ANTENNA
AM loop antenna

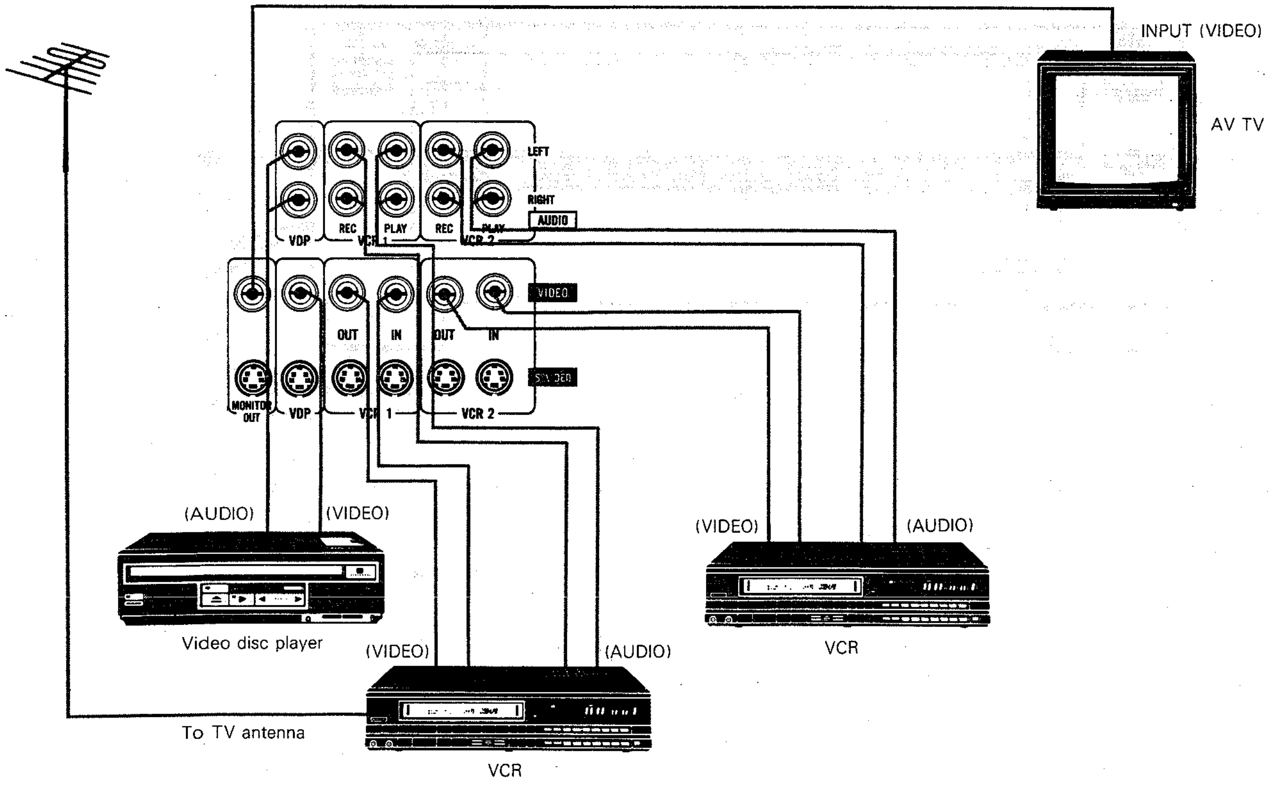
Audio Components Connections


Turntable
CD player
DAT deck
ANALOG
ANALOG
Front Speakers 1
Front Speakers 2
FM 3000
AM LOOP
FM 75Ω
GND
AM EXT
ANTENNA
GND
COMPU LINK-1 SYNCHRO
AC OUTLETS SWITCHED
FRONT SPEAKERS
RIGHT
LEFT
CENTER SPEAKER
REAR SPEAKERS
PHONO
CD
DAT
TAPE
VDP
VCR 1
VCR 2
REC
PLAY
AV COMPU LINK
TV
RIGHT
LEFT
AUDIO
OUT
IN
CENTER OUT
MONITOR OUT
Amplifier
Cassette deck
Cassette deck
Subwoofer
Center Speaker
Rear Speakers

Notes:
- Connect speakers with the correct polarity: (+) to (+) and (−) to (−). Reversed polarity will degrade the stereo effect. Be careful to prevent adjacent speaker wires from touching each other.
- Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the receiver.

Video Components Connections

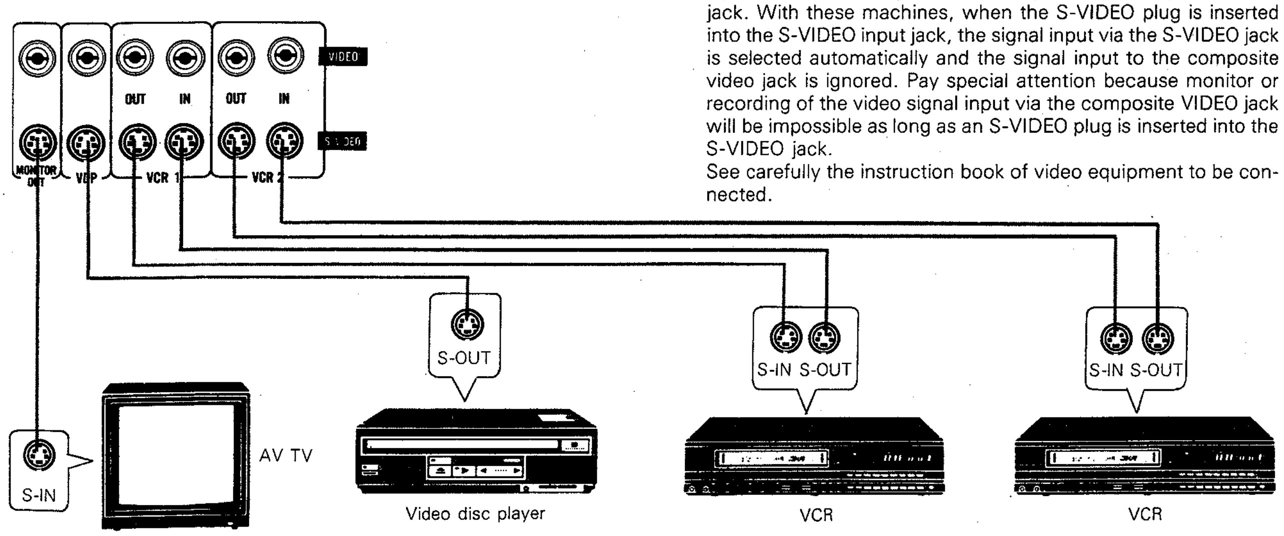
- Since mutual interference between video and audio components can cause noise and distorded pictures, you are recommended to use coaxial cable for the TV/video antenna.


INPUT (VIDEO)
AV TV
LEFT
RIGHT
AUDIO
VDP
REC
PLAY
VCR 1
REC
PLAY
VCR 2
VIDEO
OUT
IN
OUT
IN
S-VIDEO
MONITOR OUT
VDP
VCR 1
VCR 2
(AUDIO)
(VIDEO)
Video disc player
(VIDEO)
(AUDIO)
VCR
(VIDEO)
(AUDIO)
To TV antenna
VCR

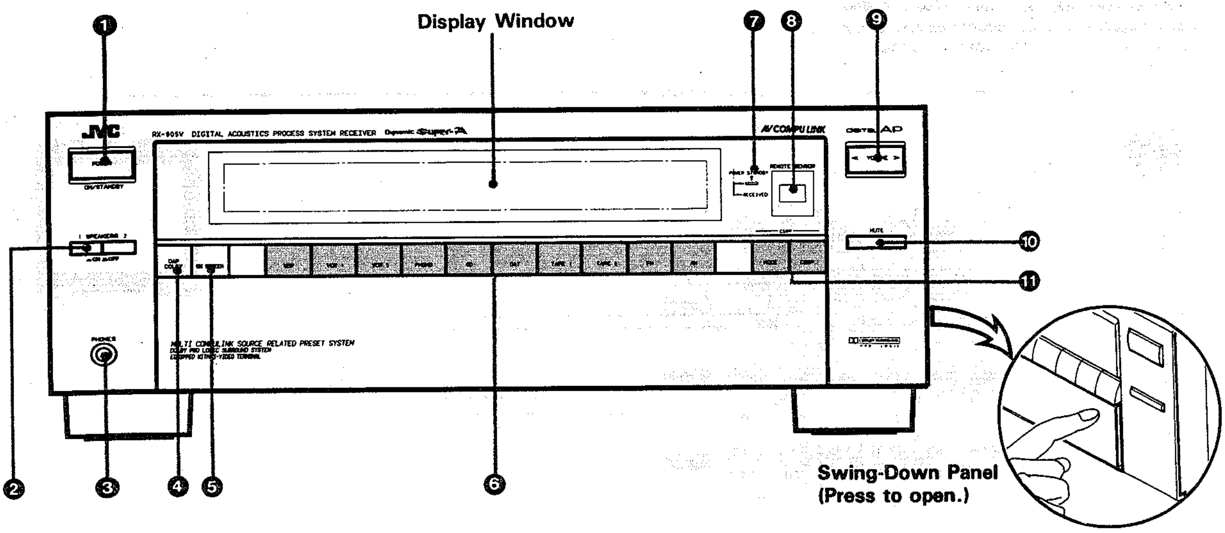
Connecting to video equipment having S-VIDEO jacks

- For audio terminal connections, see the diagram above.

- Some VCRs with S-VIDEO jacks give priority to the video signal input via the S-VIDEO jack over that input via the composite VIDEO jack. With these machines, when the S-VIDEO plug is inserted into the S-VIDEO input jack, the signal input via the S-VIDEO jack is selected automatically and the signal input to the composite video jack is ignored. Pay special attention because monitor or recording of the video signal input via the composite VIDEO jack will be impossible as long as an S-VIDEO plug is inserted into the S-VIDEO jack.
  See carefully the instruction book of video equipment to be connected.


VIDEO
OUT
IN
OUT
IN
S-VIDEO
MONITOR OUT
VDP
VCR 1
VCR 2
S-OUT
S-IN S-OUT
S-IN S-OUT
S-IN
AV TV
Video disc player
VCR
VCR

Front Panel



① POWER (ON/STANDBY)
Press this button to turn the power ON. Press again to turn the power off and activate the STANDBY mode. The STANDBY indicator will light.
A small amount of power (5 watts) is consumed in the STANDBY mode. To turn the power off completely, disconnect the power cord from the wall outlet. Preset data is retained in memory while the power cord is plugged into the wall outlet. If the power cord is disconnected or a power failure occurs, data is retained for two or three days.

② SPEAKERS 1, 2
Turns front speakers 1 and 2 ON or OFF.

③ PHONES
Plug headphones into this jack. If you want to hear from the headphones alone, turn OFF front speakers 1 and 2. When DAP or Dolby Surround is used, set the DAP/DOLBY key to OFF to turn off the rear and center speakers.

④ DAP/DOLBY
Turns the Digital Acoustics Processor or Dolby Surround ON or OFF.

⑤ ON SCREEN
Selects the ON SCREEN mode.

⑥ Source Select keys
Use the following keys to select sources:

- **VDP**
- **VCR 1**
- **VCR 2**
- **PHONO**
- **CD**
- **DAT**
- **TAPE 1**
- **TAPE 2**
- **FM**
- **AM**

Note:
The TAPE 2 key alternates between ON and OFF. To listen to other source after listening to TAPE 2 source, set TAPE 2 to OFF.

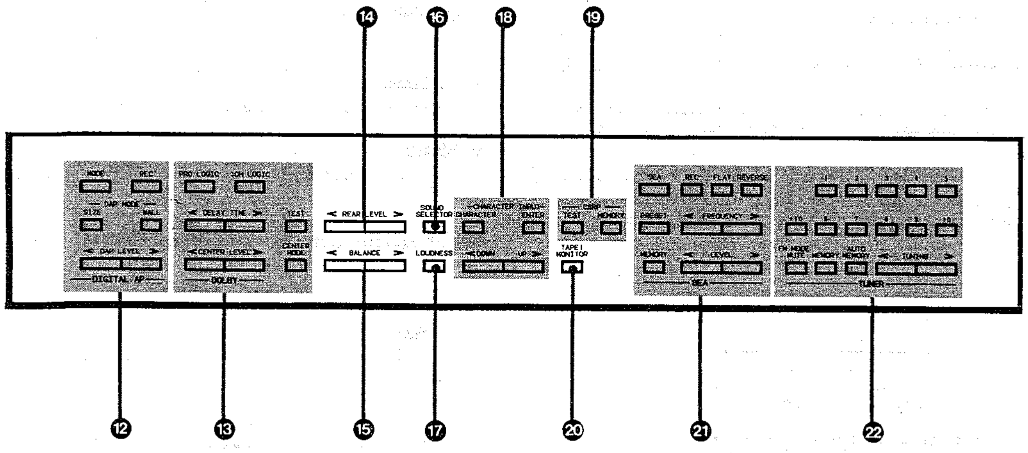
⑦ RECEIVED and POWER STANDBY indicator
Lights when signals are received from the remote control unit or when the machine is in the STANDBY mode.

⑧ REMOTE SENSOR
Receives signals from the remote control unit.

⑨ VOLUME <, >
Adjusts the volume of sound from the speakers or headphones.

⑩ MUTE
Turns sound ON or OFF temporarily.
To release it, press the MUTE key again, or press the VOLUME or BALANCE key.

⑪ CSRP
COMPU LINK SOURCE RELATED PRESET SYSTEM feature
CSRP: Turn the CSRP feature ON or OFF.
MODE: Selects the CSRP mode.


⑭
⑯
⑱
⑲
MODE
REC
DAP MODE
SIZE
WALL
< DAP LEVEL >
DIGITAL AP
PRO LOGIC
3CH LOGIC
< DELAY TIME >
TEST
< CENTER LEVEL >
CENTER MODE
DOLBY
< REAR LEVEL >
< BALANCE >
SOUND SELECTOR
LOUDNESS
CHARACTER INPUT
CHARACTER
ENTER
< DOWN
UP >
CSRP
TEST
MEMORY
TAPE 1 MONITOR
SEA
REC
FLAT
REVERSE
PRESET
< FREQUENCY >
MEMORY
< LEVEL >
SEA
1
2
3
4
5
+10
6
7
8
9
10
FM MODE MUTE
MEMORY
AUTO MEMORY
< TUNING >
TUNER
⑫
⑬
⑮
⑰
⑳
㉑
㉒

⑫ DIGITAL AP (Digital Acoustics Processor)

Use the following keys for the DAP

MODE:	Selects the DAP program.
REC:	Turns DAP recording ON or OFF.
SIZE:	Sets the desired sound field size.
WALL:	Adjusts the walls materials of simulated room.
DAP LEVEL <, >:	Adjusts the level of the DAP effect to be mixed with the normal stereo sound.

⑬ DOLBY

Use the following keys to playback with Dolby Surround.

PRO LOGIC: **3CH LOGIC**	Selects the Dolby Surround mode.
DELAY TIME <, >:	Sets the delay time for the REAR SPEAKERS.
TEST:	Turns the test tone ON/OFF.
CENTER LEVEL <, >:	Sets the output level of the CENTER SPEAKERS.
CENTER MODE:	Selects the center channel mode.

⑭ REAR LEVEL <, >

Set the output level of the rear speakers.

⑮ BALANCE <, >

Adjust the volume balance between the left and right speakers.

⑯ SOUND SELECTOR

When this button is pressed (the SOUND SELECTOR Indicator lights), the sound signal can be selected from a different AUDIO source in combination with the VISUAL signal originating from the VIDEO source.

⑰ LOUDNESS

Turns LOUDNESS ON or OFF. The ON position makes up for loss of the human auditory sensation when the sound volume is low.

⑱ CHARACTER INPUT

Use the following keys to assign titles or other data to S.E.A. manual preset patterns, Tuner preset channels, and CSRP modes:

CHARACTER:	Sets the CHARACTER INPUT mode.
ENTER:	Stores created titles in memory.
DOWN, UP <, >:	Press to select characters (letters, numerals, and symbols).

⑲ CSRP

COMPU LINK SOURCE RELATED PRESET SYSTEM feature

TEST:	Display all the CSRP setting data on each source one after another.
MEMORY:	Store CSRP data in memory.

⑳ TAPE 1 MONITOR

When a 3-head tape deck is connected to the TAPE 1 terminals, press this button to monitor the sound that has just been recorded on the tape. Press the button once again when you have finished monitor the recording.

㉑ SEA

Use the following keys for the S.E.A. Graphic Equalizer:

SEA:	Turns the S.E.A. ON or OFF.
REC:	Turns S.E.A. recording ON or OFF
FLAT:	Flattens S.E.A. characteristics
REVERSE:	Reverses polarity of the S.E.A. characteristics
PRESET:	Calls an S.E.A. preset pattern.
FREQUENCY < , >:	Calls a frequency band to correct
MEMORY:	Stores an S.E.A. pattern in memory
LEVEL < , >:	Sets an S.E.A. level.

㉒ TUNER

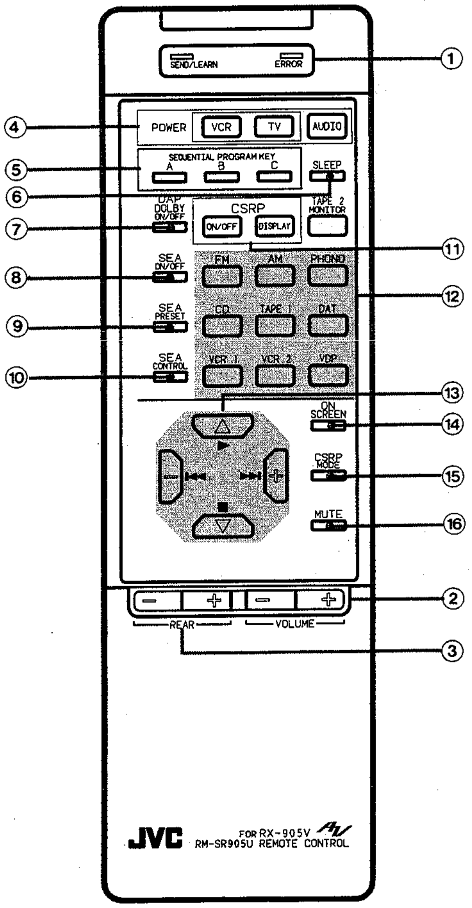
Use the following keys to listen to AM or FM broadcasts:

1 - 10, +10 **(Tuner numeric keys):**	Press to select preset channels.
FM MODE/MUTE:	Selects FM reception modes.
MEMORY:	Stores an AM or FM frequency (station) on a preset channel.
AUTO MEMORY:	Stores an AM or FM frequency on a preset channel using the AUTO MEMORY feature.
TUNING <, >:	Tunes in an AM or FM frequency.

Remote Control Unit

The remote control unit provided control the receiver and JVC's audio visual gear from a remote place.

- It is programmable, with the ability to learn the functions of most other remote controls for audio and video components, regardless of make.
- It's sequential programming facility lets you assign a sequence of actions to a single key and up to three sequences can be programmed.
- The remote control unit also has two control panels: the external panel has keys for basic operation and easy-to-use multifunction cursor keys, while the internal contains keys for programming.


SEND/LEARN
ERROR
POWER
VCR
TV
AUDIO
SEQUENTIAL PROGRAM KEY
A
B
C
SLEEP
DAP
DOLBY
ON/OFF
CSRP
ON/OFF
DISPLAY
TAPE 2
MONITOR
SEA
ON/OFF
FM
AM
PHONO
SEA
PRESET
CD
TAPE 1
DAT
SEA
CONTROL
VCR 1
VCR 2
VDP
ON
SCREEN
CSRP
MODE
MUTE
REAR
VOLUME
JVC
FOR RX-905V
RM-SR905U REMOTE CONTROL
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯

① **SEND/LEARN indicator**
ERROR indicator
The remote control unit operation statuses are indicated.

② **VOLUME (−, +)**
Press to adjust the output sound level.

③ **REAR (−, +)**
Press to adjust the output level of the rear speakers.

■ Controls on the External Panel

Contains keys used in basic operations.

④ **POWER**
AUDIO: Press to turn the power for the receiver ON or STANDBY.
TV: Press to turn on or off the power to JVC's TV receiver.
VCR: Press to turn on or off the power to JVC's VCR.

⑤ **SEQUENTIAL PROGRAM KEY (A, B, C)**
The remote control unit functions can be stored in the desired order for up to 16 individual operations.

⑥ **SLEEP**
Use this control when you want to set the Sleep Timer.

⑦ **DAP/DOLBY ON/OFF**
Turns the Digital Acoustics Processor or Dolby Surround ON or OFF.

⑧ **SEA ON/OFF**
Turns the S.E.A. feature ON or OFF.

⑨ **SEA PRESET**
Calls an S.E.A. preset pattern.

⑩ **SEA CONTROL**
Puts the Multi Function Cursor keys in the S.E.A. mode.

⑪ **CSRP**
ON/OFF: Turns CSRP ON or OFF.
DISPLAY: Use to display the CSRP settings.

⑫ **Source Select keys**
Press to change the source selected for input to the receiver. Different functions are assigned to the Multi Function Cursor keys depending on the source.

⑬ **Multi Function Cursor keys**
Use for basic operations of the source equipment selected with the Source Select keys, and operation of the S.E.A.

⑭ **ON SCREEN**
Selects the ON SCREEN mode.

⑮ **CSRP MODE**
Selects the CSRP mode.

⑯ **MUTE**
Press to turn the output sound ON or OFF.

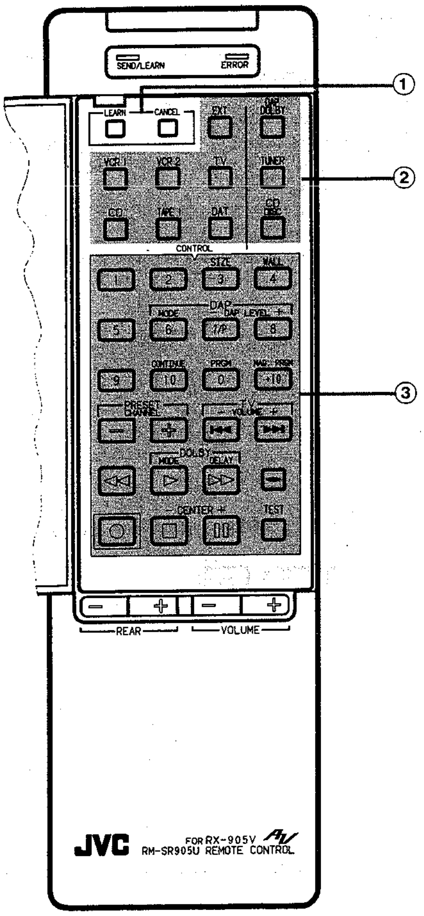
■ Controls on the internal Panel

Extra keys on the panel are for the various operations that cannot be done using only the keys on the external panel.

① **LEARN, CANCEL**
Use to set the operation mode to LEARN or CANCEL.

② **Function Select keys**
Press to select the function mode of the PROGRAMMABLE CONTROL SECTION keys.

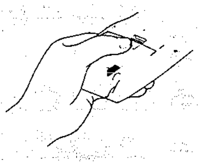
③ **PROGRAMMABLE CONTROL SECTION keys**
Use to operate equipment connected to the receiver.
Different functions are assigned to these keys by the Function Select keys and Source Select keys.
Other remote control signals can be registered to these keys.


SEND/LEARN
ERROR
①
LEARN
CANCEL
EXT
DAP DOLBY
VCR 1
VCR 2
TV
TUNER
②
CD
TAPE 1
DAT
CD DISC
CONTROL
SIZE
WALL
1
2
3
4
DAP
MODE
DAP LEVEL +
5
6
7/P
8
CONTINUE
PRGM
MAN. PRGM
9
10
0
+10
③
PRESET CHANNEL
T.V.
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST
REAR
VOLUME
JVC
FOR RX-905V
RM-SR905U REMOTE CONTROL

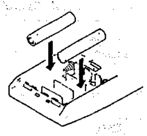
■ Inserting Batteries

Use long-life dry cells, type "AAA" (1.5 V) × 2.

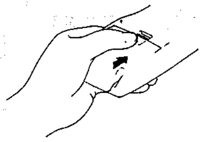
1. Remove the rear cover of the remote control unit by pressing down gently while sliding it out.



2. Insert the batteries, making sure that their position matches that of the diagram inside the remote.



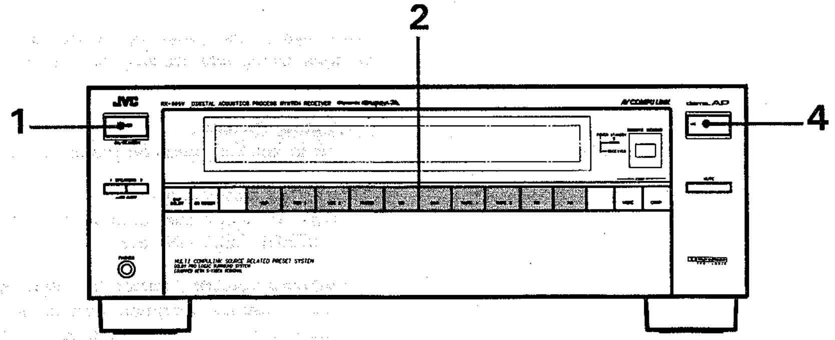
3. Replace the rear cover.

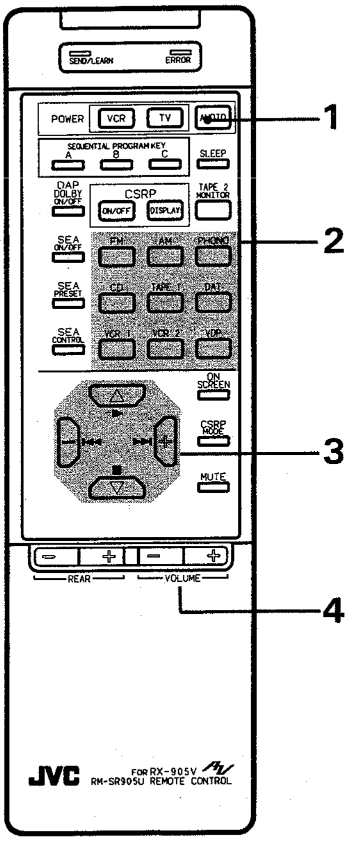


Battery Replacement
- If the range of the remote seems shortened, the batteries may be old. Try replacing the old batteries.
- Do not use a new battery with an old battery.
- Do not allow more than 3 minutes for battery replacement to preserve stored data.
- Use batteries of the same brand. Batteries can vary in voltage even though they look alike.
- If you are not planning to use the remote control for an extended period of time, remove the batteries.

CAUTION:
Do not heat batteries or attempt to dispose of them by burning.

Basic Operation




SEND/LEARN
ERROR
POWER
VCR
TV
AUDIO
1
SEQUENTIAL PROGRAM KEY
A
B
C
SLEEP
DAP DOLBY ON/OFF
CSRP
ON/OFF
DISPLAY
TAPE 2 MONITOR
SEA ON/OFF
FM
AM
PHONO
2
SEA PRESET
CD
TAPE 1
DAT
SEA CONTROL
VCR 1
VCR 2
VDP
ON SCREEN
CSRP MODE
3
MUTE
REAR
VOLUME
4
JVC
FOR RX-905V
RM-SR905U REMOTE CONTROL

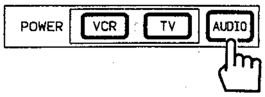
Before Operating:

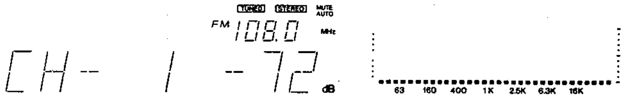
- Before plugging the power cord into an AC wall outlet, check to be sure the individual components are connected correctly.
- Point the Remote Control Unit at the REMOTE SENSOR on the target component.
- The range of the remote control is about 23 feet (7 m). Make sure there are no obstacles between your remote and your equipment that may block the signal.
- Use the keys on the external panel of the remote control unit, only when it is firmly closed.
  You can not operate the keys on the external panel, when it is open.

Notes:

- When operating the component connected by COMPU LINK SYNCHRO-1 remote cable, or operating the TV connected by AV COMPU LINK cable, point the remote at your receiver.
- If a malfunction occurs when the power is ON, unplug the power cord and then plug it in again.

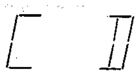
1. Press the POWER key to turn the receiver on.


POWER
VCR
TV
AUDIO


TUNED
STEREO
MUTE AUTO
FM 108.0 MHz
CH- 1 -72 dB
63 160 400 1K 2.5K 6.3K 16K

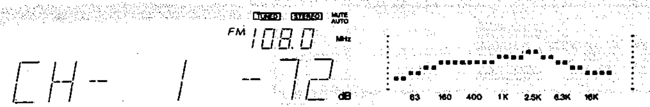
The display window lights up.

2. Press one of the Source Select keys for the desired source.

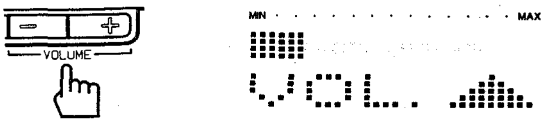


3. Operate the source components.

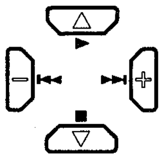
- Basic operations for the tuner and source equipment can be done using the Multi Cursor keys. The Dot Display section in the Display Window shows the total level of the front and center speaker signal output in each separate audio frequency bands.



4. Adjust the output sound level using the VOLUME keys.



■ Multi Cursor keys



Depending on the source, different functions are assigned to the Multi Cursor keys. You must press the Source Select keys first before use the Multi Cursor keys.

FM, AM mode
△ : Scans to higher preset channel.
▽ : Scans to lower preset channel.

PHONO mode
▶ : Starts play.
■ : Stops play.

CD mode
▶ : Starts play.
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the beginning of the next track.
■ : Stops play.

TAPE 1 mode
▶ : Starts playback.
⏮ : Fast winds the tape from right to left.
⏭ : Fast winds the tape from left to right.
■ : Stops play.

DAT mode
▶ : Starts playback.
⏮ : Skips to the beginning of the previous tune.
⏭ : Skips to the beginning of the next tune.
■ : Stops operation.

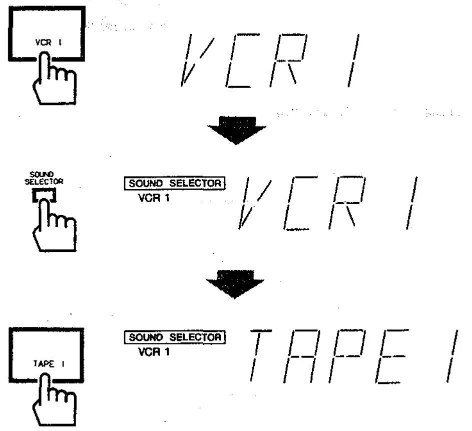
VCR 1, VCR 2 mode
▶ : Starts playback.
⏮ : Rewinds video tape.
⏭ : Fast-forwards video tape.
■ : Stops play.

VDP mode
▶ : Starts play.
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the beginning of the next track.
■ : Stops operation.

■ Listening to Another Audio Source While Watching VCR 1, VCR 2 or VDP

1. Press the VCR 1, VCR 2 or VDP key.
2. Press the SOUND SELECTOR key on the receiver and then select the desired audio source using the Source Select keys.

<If you with to listen to TAPE 1 while watching VCR 1>



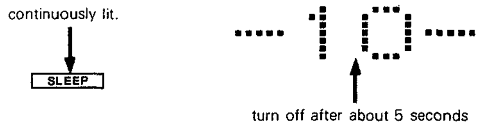
Press the SOUND SELECTOR key once more to turn off the SOUND SELECTOR indicator and listen to audio source. Press the video source key to listen to a video source.
The SOUND SELECTOR function also can be used for recording.

■ Using the Sleep Timer

The Sleep Timer shuts off the receiver (to enter the STANDBY mode) when the preset time intervals have elapsed.

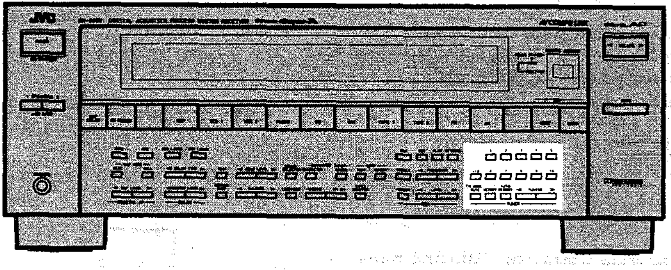
1. Press the SLEEP key on the remote control unit to set the timer setting mode.

2. Each time the SLEEP key is pressed subsequently, the timer can be set up to 80 minutes, in 10 minutes multiples.



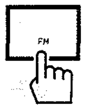
3. After the minute display turns off, press the SLEEP key once more to display the remaining time in minutes.

Listening to AM or FM Broadcasts

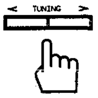


■ Tuning in a Station

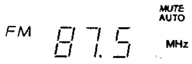
1. Press the AM or FM key.



2. Use the TUNING keys to find a station.

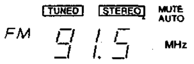


- *While tuning in an FM station, press the FM MODE/MUTE key* to light the MUTE/AUTO indicator, this cuts out inter station noise while tuning.



Each time the TUNING keys are pressed, the frequency is varied in steps of 10 kHz for AM and 0.1 MHz for FM. The setting will vary continuously while the keys are pressed and held.

Auto-tuning starts when the TUNING keys are released and stops when a station is tuned. To halt auto-tuning, press a TUNING key.



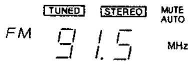
The TUNED indicator *will light when a station is tuned in correctly.*

- Adjust the antenna if the indicator does not light.
- The STEREO indicator *will light when an FM stereo station is tuned* in correctly.
  If the FM stereo station is weak and noisy, press the FM MODE/MUTE key *again to turn off the* MUTE/AUTO *indicator to* improve reception (broadcast becomes monaural).

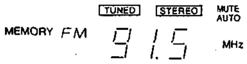
■ Presetting Stations

You can preset a total of 40 AM and FM station (CH 1 through CH 40).

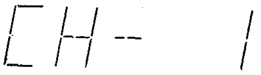
1. Tune in the desired station with the TUNING keys.



2. Press the MEMORY key to light its indicator.

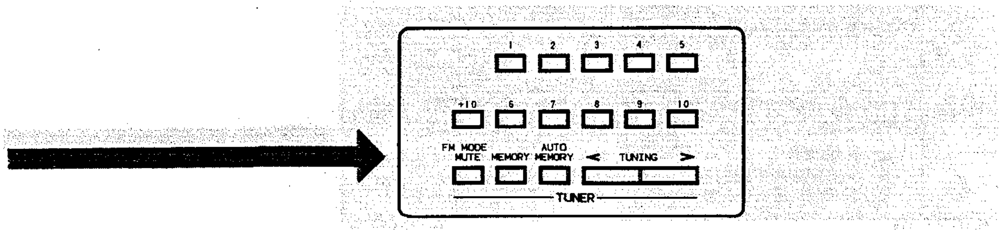


3. *Enter the channel number with numeric keys while the indicator* is on (for about 5 seconds).



- If the indicator turns off before you enter the channel number, press the MEMORY key again.

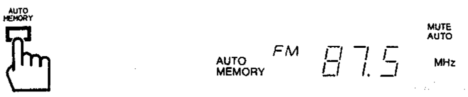
4. Repeat this procedure to preset other channels.


1
2
3
4
5
+10
6
7
8
9
10
FM MODE MUTE
MEMORY
AUTO MEMORY
TUNING
TUNER

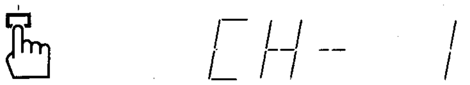
■ Auto Memory

The auto-memory feature scans frequencies upward and presets stations as they are tuned, in ascending channel number order.

1. Using the TUNING keys, select the frequency from which you want auto-memory to start (the lower-limit frequency).
2. Press the AUTO MEMORY key to light its indicator.


AUTO MEMORY
MUTE AUTO
AUTO MEMORY
FM
87.5
MHz

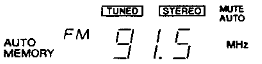
Enter the starting channel number with the numeric keys while the indicator is on (about 5 seconds).



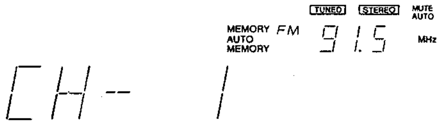
- If the indicator turns off before you enter the channel number, press the AUTO MEMORY key again.

3. The auto-memory feature starts scanning frequencies upward.

The TUNED indicator will light when a station is tuned.


TUNED
STEREO
MUTE AUTO
AUTO MEMORY
FM
91.5
MHz

4. The presetting is complete when the MEMORY indicator is lit.

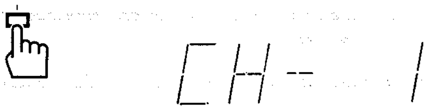

TUNED
STEREO
MUTE AUTO
MEMORY
AUTO MEMORY
FM
91.5
MHz
CH- 1

This continues until the upper-limit frequency is reached or all 40 channels are filled.

Note:
If you do not want to preset a station, resume scanning by pressing the AUTO MEMORY key before the MEMORY indicator turns off. To halt the auto-memory feature, press any TUNER key other than the AUTO MEMORY key.

■ Selecting preset channels

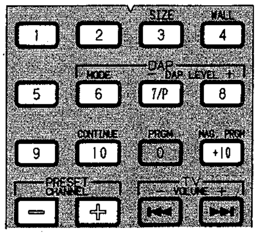
1. Press numeric keys to select a preset channel.



- To indicate numbers 1 through 10, simply press the appropriate keys.
  To indicate numbers over 10, press the appropriate combination of keys.
  Examples;
  To indicate 17, press "+10", then "7".
  To indicate 20, press "+10", then "10".
  To indicate 26, press "+10" twice, then "6".
  To indicate 40, press "+10" three times, then "10".

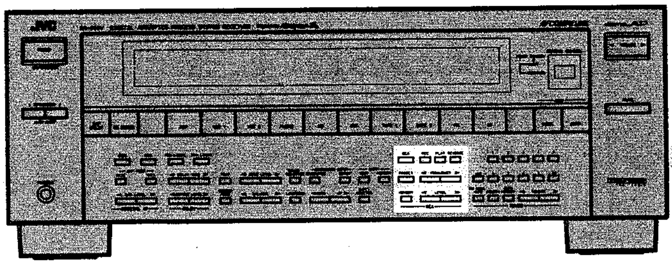
You can designate the preset channel number using the remote control unit.

1. Press the TUNER key of the Function Select keys on the internal panel.
2. Use the following keys.


SIZE
WALL
1
2
3
4
DAP
MODE
DAP LEVEL
5
6
7/P
8
CONTINUE
PRGM
NAS. PRGM
9
10
0
+10
PRESET CHANNEL
TV VOLUME
−
+

1~10, +10 : Enters the preset channel number.
PRESET CHANNEL
+ : Scans to higher preset channels.
− : Scans to lower preset channels.

Using the S.E.A. Graphic Equalizer



The S.E.A. Graphic Equalizer breaks down the audible frequency range into seven bands. Each band of tones can be adjusted as desired by the listener. Thus allowing you to make the necessary adjustments in the presicely appropriate frequency bands.

***You can customize the sound to your taste.**

***You can correct subtle frequency to suit the acoustic characteristics of your listening room.**

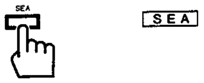
***You can compensate for the conditions of audio equipment.**

Note:
The S.E.A. Graphic Equalizer does not work on the CENTER and REAR speaker sound.

■ Recalling a preset pattern

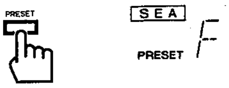
A total of 10 preset patterns can be used: 5 programmed preset patterns, and 5 manual patterns which you create (SEA-A through E).

1. Press the SEA key.



The Dot Display normally shows the input signal levels.
It will change to S.E.A. level for about 5 seconds when the SEA, PRESET, LEVEL, FLAT, REVERSE, or FREQUENCY keys are pressed.

2. Call a preset pattern with the PRESET keys.



A—E:	Manual patterns
F) HEAVY:	For music with a heavy beat.
G) CLEAR:	For crisp, clear sound with transparent highs.
H) SOFT:	For background music, at low volume level.
I) MOVIE:	For TV, VCR, and videodisc sound.
J) VOCAL:	For music that is chiefly vocal, or speech.

Order

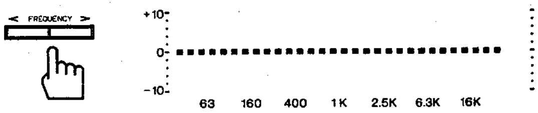
A ▶ B ▶ C ▶ D ▶ E ▶ F ▶ G ▶ H ▶ I ▶ J ▶ (back to the beginning)

- After recalling these pattern, you can further change each frequency band to suit yourself. However, since they are representative patterns, the original, stored pattern will be unchanged.

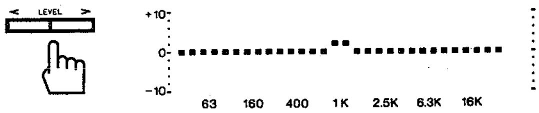
■ Creating an S.E.A. pattern

1. Press the SEA key.

2. Press the FREQUENCY keys to call the desired frequency.

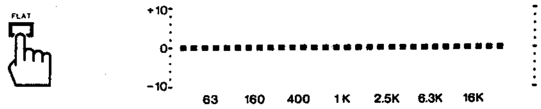


3. Press the LEVEL keys to adjust the S.E.A. level.



Note:
When a frequency has been called, press the LEVEL keys while the frequency is displayed (about 5 seconds). If the display is cleared before you press the LEVEL keys, it can be recalled by pressing either FREQUENCY keys or LEVEL keys.

- **The SEA key** enables you to compare the sound corrected by S.E.A. with the original (uncorrected) sound during the procedure for creating an S.E.A. pattern. Pressing the SEA key to turn the S.E.A. OFF lets you hear the uncorrected sound. When you press the S.E.A. key again, the S.E.A. pattern being created is recalled and the corrected sound can be heard.
- To flatten the SEA characteristics.

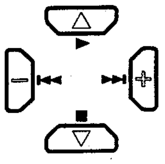


Pressing the FLAT key while a pattern is yet to be preset will clear it. Be careful not to press the FLAT key inadvertently.

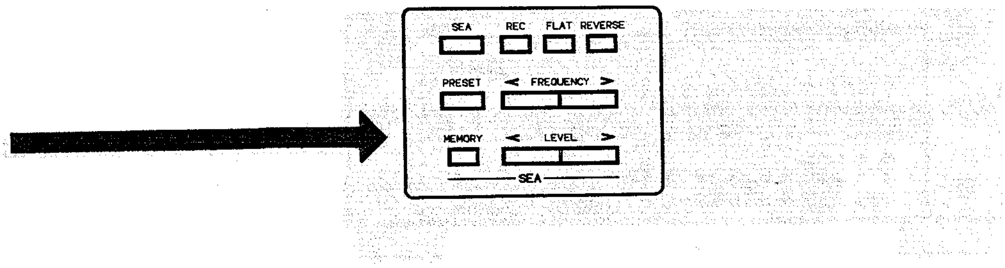
- You can create an S.E.A. pattern using the remote control unit.

1. Press the SEA CONTROL key on the external panel.

2. Use the Multi Function Cursor keys.

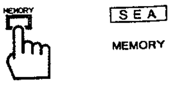


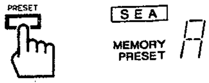
−, + : Calls a frequency band to correct.
△, ▽ : Sets an S.E.A. level.



■ Presetting Manual Patterns

1. Create an S.E.A. pattern to preset as instructed in "Creating an S.E.A. pattern".
2. Press MEMORY key to blink its indicator. Call one of the patterns to store (SEA-A through E) by pressing the PRESET keys while the indicator is on (about 5 seconds).



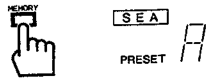


Order

A▶B▶C▶D▶E▶ (back to the beginning)

Note:
Press the MEMORY key again if the indicator turns off before you press the PRESET keys.

3. Press the MEMORY key again while the indicator is on (about 5 seconds). Memory presetting is complete when the MEMORY indicator turns off.

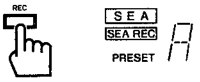


The preset S.E.A. patterns can each be given a five-character title. See the section "Entering Characters" for further details.

■ S.E.A. recording

The sound corrected by S.E.A. can be recorded on the tape deck connected to the TAPE 1, DAT, VCR1 or VCR2 terminals.

1. Press the SEA key to turn the S.E.A. ON.
2. Adjust the S.E.A. settings (PRESET, FREQUENCY, LEVEL)
3. Press the REC key.



4. Operate the recording procedure.

Notes:
- SEA recording is not available with the tape deck connected to the TAPE 2 terminals.
- The REC key is not functional when the PRO LOGIC or 3CH LOGIC key is ON.
- Setting the SEA REC key to ON while DAP is being used sets the DAP REC key to ON. When the DAP effect is not required, set the DAP/DOLBY key to OFF.

The reverse feature offers you a noise reduction effect during tape recording. First, record sources with emphasis on high-piched tones by using S.E.A.; during playback, activate reverse S.E.A., to cut hissing noise inherent in tape recording.

To reverse the porality of the S.E.A. characteristics, press the REVERSE key.

Frequency band responses

63 Hz: Raise to emphasize the very low base response of organs, drums, and contrabass. When de-emphasized, eliminated unclear response at low frequencies.

160 Hz: Emphasize to obtain a more expanded low sound. De-emphasize to eliminate unclear sound caused by large or nearly empty listening rooms.

400 Hz: This frequency range is the base on which music is constructed. Emphasize to put real punch in your music.

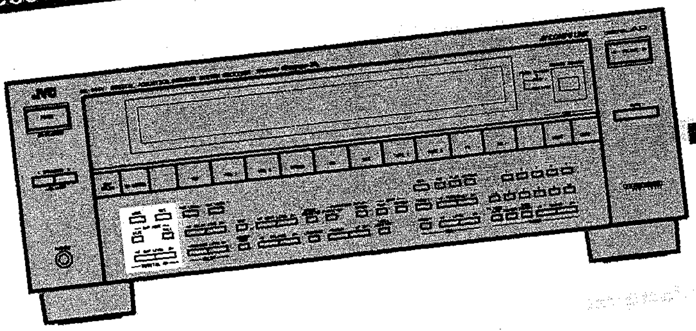
1 kHz: Most effective in emphasizing or de-emphasizing the human voice.

2.5 kHz: The human hearing is most sensitive to this freuqncy. If the music sounds hard or metallic, de-emphasize it.

6.3 kHz: This frequency band varies the tonal expression, influencing the subtleties of the music.

16 kHz: Boosting this frequency range suitably adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension.

Digital Acoustics Processor (DAP)



Digital Acoustics Processor (DAP) incorporated in the receiver creates a sound field (the reflected sound that a listener hears from various directions) which simulates that in a concert hall, etc.

You can get the exciting sound you would at a live performance.

The DAP can create four programs of acoustic space.

SYMPHONY HALL:
This simulates the sound field of a typical concert hall for classical music, having 2000 seats.

PAVILION:
This simulates the sound field of an octagonal pavilion with a high ceiling.

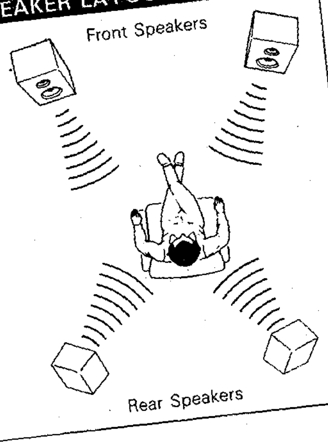
STADIUM:
This simulates the sound field of a large open-air arena with tiered stand.

LIVE CLUB:
This simulates the sound field of a live club with a low ceiling and an intimate atmosphere where musicians play near the audience.

Dolby Surround cannot be used in DAP mode.

SPEAKER LAYOUT EXAMPLE

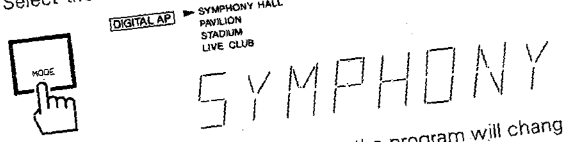
- The rear speakers should prove most effective when installed somewhat higher than the height of your ears at the listening position.



Playing Back with DAP sound Effect

1. Press the DAP/DOLBY key.

2. Select the DAP program with the MODE key.



Each time you press the MODE key, the program will change in the following order.

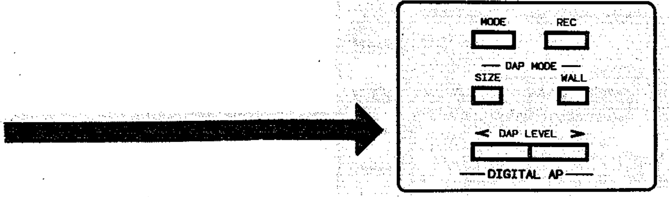
→SYMPHONY HALL→PAVILION→STADIUM→LIVE CLUB→

3. Play back the source.

DAP recording
The sound effected by DAP can be recorded on the tape deck connected to the TAPE 1, DAT, VCR 1 or VCR 2 terminal.

Operate the recording procedure as instructed in "Recording" page 25.

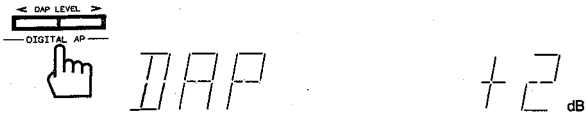
Notes:
- DAP recording is not available with the tape deck connected to the TAPE 2 terminals.
- Setting the DAP REC key to ON while S.E.A. is being used sets the SEA REC key to ON. When the S.E.A. effect is not required, set the SEA key to OFF.


MODE
REC
DAP MODE
SIZE
WALL
< DAP LEVEL >
DIGITAL AP

■ Parameter change

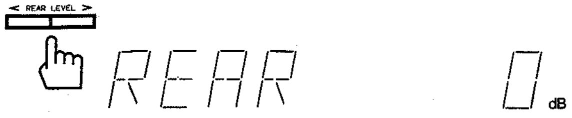
By changing the parameters, you can create your own original sound-field pattern.
The DAP LEVEL, ROOM SIZE and WALL TYPE parameters are stored in each program until you make another change.

- **DAP LEVEL**
  Set the level of the DAP effect sound, using the DAP LEVEL keys.


< DAP LEVEL >
DIGITAL AP
DAP
+2
dB

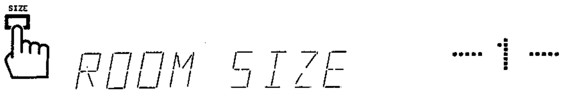
order
no effect —[−16]—[−14]—[−12]...[−6]...[0]...[+6]
average value

- **REAR LEVEL**
  Set the output level of the rear speakers using the REAR LEVEL keys.


< REAR LEVEL >
REAR
0
dB

order
[−20]—[−18]—[−16]...[0]...[+16]—[+18]—[+20]
average value

- **ROOM SIZE**
  Use the SIZE key to set the size of the simulated room to one of 3 levels.
  <If you select "1">

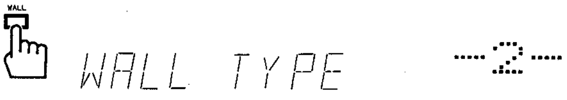

SIZE
ROOM SIZE
1

Each time you press the key, the room size changes in the following order:

→ 1 → 2 → 3

→ Wide

- **WALL TYPE**
  Use the WALL key to set the hardness of the walls of the simulated room to one of 3 levels.
  <If you select "2">


WALL
WALL TYPE
2

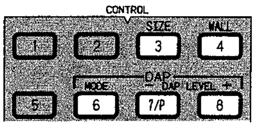
Each time you press the key, the wall type changes in the following order:

→ 1 → 2 → 3

→ Hard

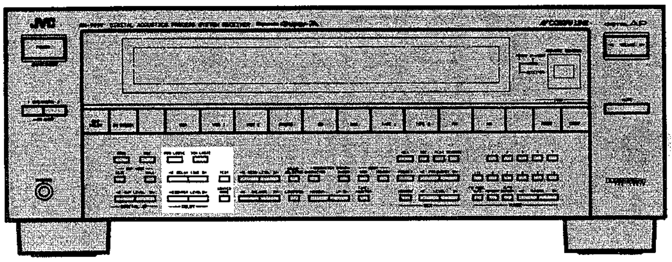
- Changing the parameters will be made easier by using the remote control unit.

1. Press the DAP/DOLBY key of the Function Select key on the internal panel.
2. Use the following keys.


CONTROL
SIZE
WALL
1
2
3
4
DAP
MODE
DAP LEVEL
−
+
5
6
T/P
8

MODE : Selects the DAP program.
SIZE : Sets the desired sound field size.
WALL : Adjusts the walls materials of simulated room.
DAP LEVEL −, + : Adjusts the level of the DAP effect to be mixed with the normal stereo sound.

Dolby Surround



The soundtracks of the video software bearing DOLBY SURROUND mark includes the same encoded surround information as found in the Dolby Stereo films.
As the RX-905VTN incorporates a DOLBY PRO·LOGIC SURROUND decoder circuit, you can get the Dolby Stereo theatre's ambience and effect, when watching these video sources at home.

Dolby Pro Logic Surround decoder provides:

- Four primary sound channels — LEFT, RIGHT, SURROUND and additional CENTER channel.
- Adaptive Matrix to actively derive each channel.

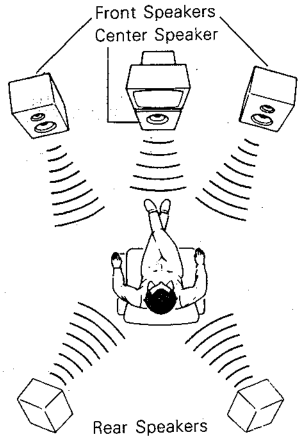
The result is that Dolby Pro Logic Surround has the effect of widening the useful listening area and enhancing directional effects, while at the same time locking center channel information on screen for the home audience.

Now you can fully enjoy all the Dolby Surround software available.

- The DAP mode cannot be used with Dolby Surround.

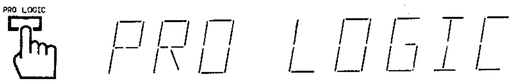
- It is recommended that antimagnetic speakers be installed near the TV monitor.
- The rear speakers are not required if you have selected DOLBY 3CH LOGIC with the 3CH LOGIC key.
- The center speaker is not required if you have selected the PHANTOM mode with the CENTER MODE key.

SPEAKER LAYOUT EXAMPLE

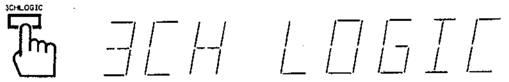


Playing Back with a Surround- sound Effect

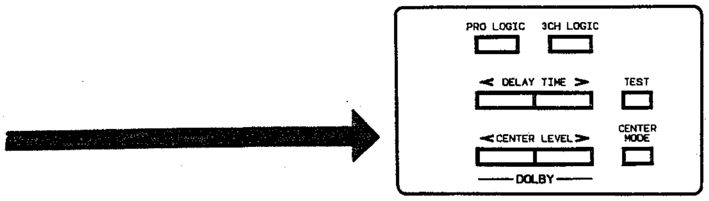
1. Press the DAP/DOLBY key to turn DAP/DOLBY ON.
2. Select the Dolby Surround mode: DOLBY PRO·LOGIC SURROUND or DOLBY 3CH LOGIC. Use Dolby 3Ch Logic when no rear speakers are connected.
   - To select DOLBY PRO·LOGIC SURROUND, press the PRO LOGIC key.



   - To select DOLBY 3CH LOGIC, press the 3CH LOGIC key.



3. Playback the source.



■ Selecting the center channel mode

Press the CENTER MODE key to select the center channel mode.

CENTER MODE

There are four center channel modes:

- **WIDE:** WIDE

  Select this mode when using a speaker similar to the front speakers to reproduce center channel signals.
  - — Center channel signals are reproduced through the center speaker as they are.

- **NORMAL:** NORMAL

  Select this mode when using a compact speaker (which has difficulty reproducing low frequencies) to reproduce center channel signals.
  - — Center channel signals are reproduced through the center speaker, with low frequencies being cut off.
  - — Low-frequency center channel signals are reproduced from the front left and right speakers.

- **PHANTOM:** PHANTOM

  Select this mode when not using the center speaker.
  - — Center channel signals are distributed between the freont left and right speakers with an equal level.
  - — Dolby 3ch Logic does not have a PHANTOM mode.

- **OFF:** CENTER OFF

  The CENTER channel output can be set to off.

Each time the CENTER MODE key is pressed, the center channel mode changes as follows:

WIDE ▶ NORMAL ▶ PHANTOM ▶ OFF ▶ (back to the beginning)

Notes:
- The input signal balance is adjusted to be equal automatically by the Auto-Input Balance circuit incorporated in the receiver.
- Playing back with the center channel mode set to "OFF" enables you to check the left and right balance of the signals input to the receiver.
- Even better surround sound effect can be enjoyed by making the adjustment described on the next page.
- A monaural source signal is not output through the rear speakers even if Dolby Surround is used.

DOLBY PRO·LOGIC SURROUND

- Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. Numbers 3,632,886, 3,746,792 and 3,959,590; Canadian Numbers 1,004,603 and 1,037,877. "DOLBY" and double D symbol ꟷ are trademarks of Dolby Laboratories Licensing Corporation.

■ Adjustment

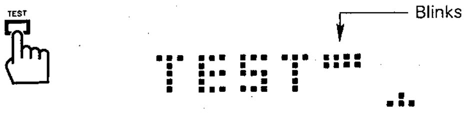
Make the following adjustment to get maximum out of the surround sound effect.

There are two items to be adjusted.
- •Output Level balance
- •Delay Time

Adjusting the output level balance

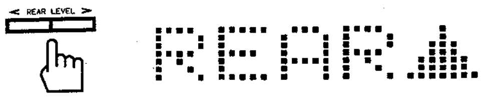
1. Select the Dolby Surround mode: DOLBY PRO·LOGIC SURROUND or DOLBY 3CH LOGIC.

2. Press the TEST key to turn the test tone ON.



The channel from which the test tone is being output is displayed.

3. You can hear the test tone clockwise through left-center-right-sourround repeatedly.
Test tones are repeatedly output in the order left, center and right in the DOLBY 3CH LOGIC mode.
Adjust the test tone to the same level with the REAR LEVEL keys and CENTER LEVEL key.



You can set the rear level and the center level up to ±20dB.

Notes:
- Center level adjustment is not required if the PHANTOM mode has been selected.
- If keys other than the REAR LEVEL, CENTER LEVEL, VOLUME and BALANCE are pressed while a test tone is being output, it may not be ouptut to the next channel. Should this happen, first press the DAP/DOLBY key to set Dolby Surround to OFF and then start over.

Adjusting the Delay Time

Set the Delay Time for the rear speaker sound with respect to the front speaker sound using the DELAY TIME key.

Each time you press the key, the delay time changes from 15 to 30 ms in a 1ms step.

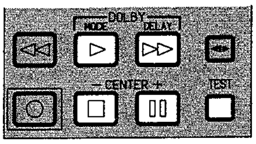
Setting advice:
Compare the distances between the front speakers and the listener and the rear speakers and the listener.
If the position of the rear speakers, compared to the front speakers, is .....

very far	——→ Approx. 15 ms
about the same	——→ Approx. 20 ms
very close	——→ Approx. 30 ms

Notes:
The Delay Time is stored in each mode until you make another change.
- Adjustment will be made easier by using the remote control unit.

1. Press the DAP/DOLBY key of the Function Select key on the internal panel.

2. Use the following keys.



MODE : Selects the Dolby Surround mode.
DELAY : Sets the Delay Time for the rear speaker sound.
CENTER –, + : Sets the output level of the center channel.
TEST : Turns the test tone ON/OFF.

Using an External Amplifier

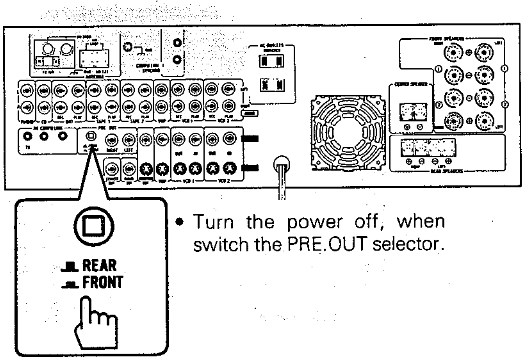
The rear and center channels can be further amplified by connecting an amplifier to the PRE.OUT and CENTER OUT terminals.

■ PRE.OUT terminal connection

PRE.OUT selector

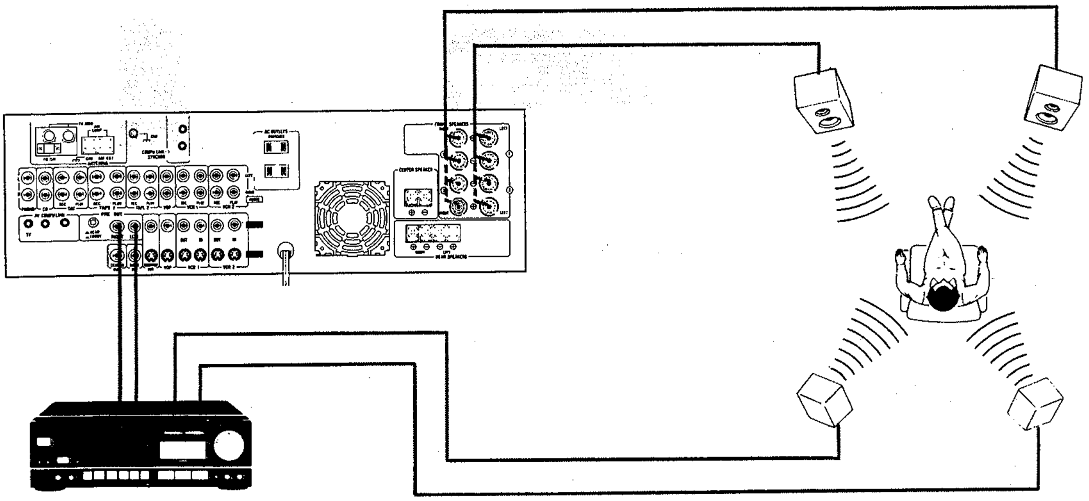
■ REAR
While this button is not pressed, REAR (SURROUND) channel signals are output from the PRE.OUT terminals. Use this button to upgrade the REAR channel output or sound quality.

▬ FRONT
When this button is pressed, the FRONT (L, R) channel signals are output from the PRE.OUT terminals. At the same time, the built-in FRONT channel amplifier (120 W + 120 W) is switched to allow REAR channel signals to be output from the speaker terminals. Use this button when you want to improve the output and sound quality from the FRONT channels, and increase the output sound from the rear speakers.
The function also allows you to cnhance the performance of the when using regular 2-channel playback.

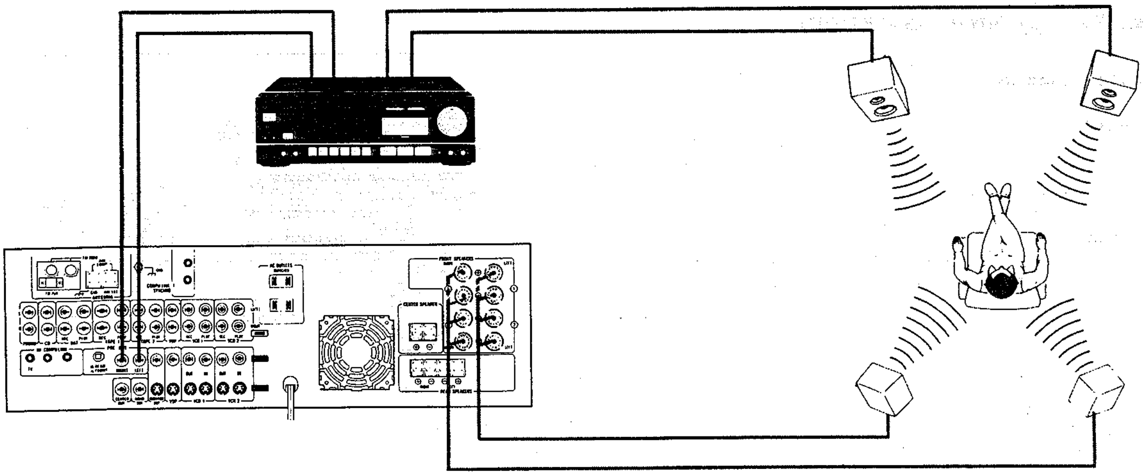


- Turn the power off, when switch the PRE.OUT selector.

<Using an external amplifier to reproduce signals on REAR channels>
Set the PRE.OUT selector to its outer position (■ REAR), that is the position it has when it is not pressed.

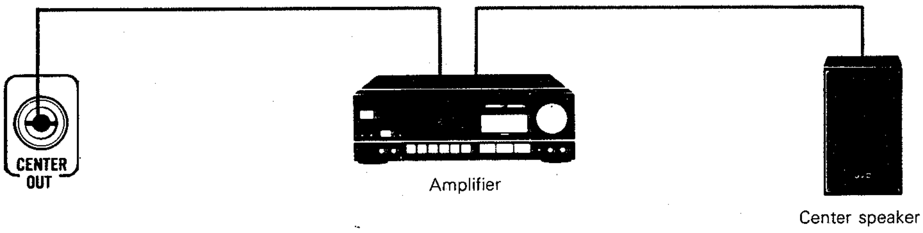


<Using an external amplifier to reproduce signals on FRONT channels>
Press the PRE.OUT selector button (▬ FRONT).

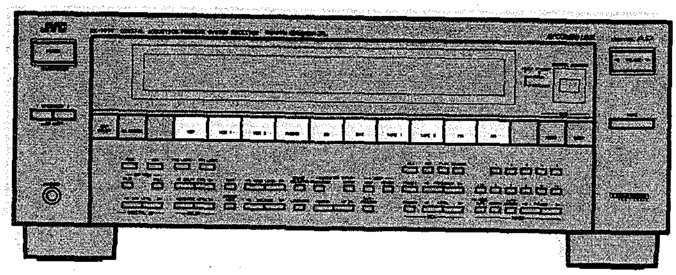


■ CENTER OUT terminal connection

<Using an external amplifier to reproduce signals on CENTER channel>


CENTER OUT
Amplifier
Center speaker

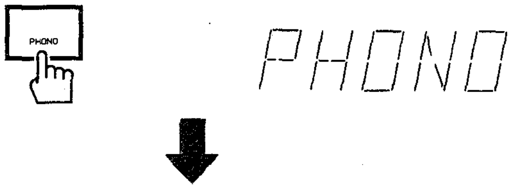
Recording



Recording

1. Press the Source Select key for the desired source.
2. Operate the corresponding source equipment.

<If you select PHONO>


PHONO
PHONO

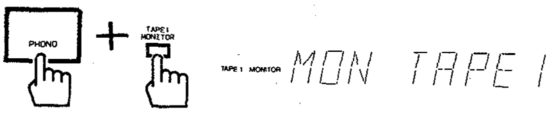
Turntable and tape deck can be operated.

Note:
The surround sound is recorded as a normal stereo sound even if it is recorded with the PRO LOGIC or 3CH LOGIC key is ON.

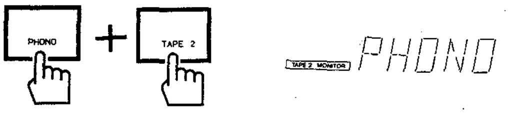
Three-Head Tape Decks

Both TAPE 1 terminals and TAPE 2 terminals can be conencted a three-head tape deck to monitor the recoding. Press the appropriate Source Select key and the TAPE 1 MONITOR or TAPE 2 key, and operate the source equipment and three-head tape deck.

<To monitor TAPE 1>


PHONO
+
TAPE 1 MONITOR
TAPE 1 MONITOR
MON TAPE 1

<To monitor TAPE 2>


PHONO
+
TAPE 2
TAPE 2 MONITOR
PHONO

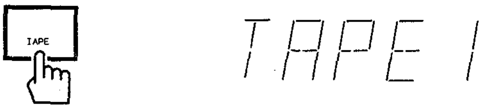
Note:
Set the recording level from the tape deck. It can not be set with the VOLUME control of the receiver.

Dubbing Tapes

Dubbing can be similarly performed between TAPE 1, TAPE 2, VCR 1 and VCR 2. When dubbing from the TAPE 2 deck to another tape deck, press the TAPE 2 key and the Source Select key other than the tape deck.

<To record from TAPE 1 to TAPE 2>

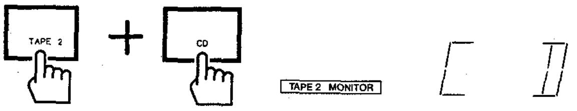
1. Press the TAPE 1 key.



2. Play back the TAPE 1 deck and record with the TAPE 2 deck.

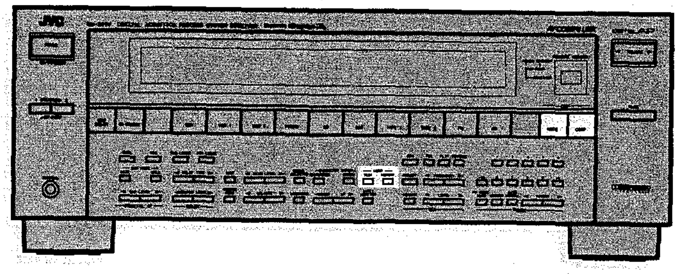
<To record from TAPE 2 to TAPE 1>

1. Press the TAPE 2 key and a Source Select key other than TAPE 1.


TAPE 2
+
CD
TAPE 2 MONITOR
CD

2. Play back the TAPE 2 deck and record with the TAPE 1 deck.

Running the CSRP (Compu Link Source Related Preset System) Feature



CSRP is the state-of-the-art electronic feature that presets volume, balance, and other control settings. This was previously done manually each time a different source was played back. This feature lets you invoke preset control settings by simply pressing a Source Select key or calling up a TUNER preset channel without repeating many settings each time surces are changed.

Three types of settings for each of the Source Select keys (except TAPE 2) and Tuner preset channel (CH-1 to CH-40) can be preset as A, B and C CSRP mode. The following controls can be preset.

- •VOLUME
- •BALANCE
- •LOUDNESS
- S.E.A.
- •ON/OFF
- •PRESET
- DAP
- •MODE
- •DAP LEVEL
- •REAR LEVEL
- •SIZE
- •WALL
- PRO LOGIC
- •DOLBY PRO LOGIC
- •CENTER MODE
- •REAR LEVEL
- •CENTER LEVEL
- •DELAY TIME
- 3CH LOGIC
- •DOLBY 3CH LOGIC
- •CENTER MODE
- •CENTER LEVEL

When the CSRP key is turned ON the display will show the data settings on the currently selected Source Select key or TUNER preset channel in sequence with the indicator blinking rapidly. Subsequently, a similar display occurs each time an additional source is selected.

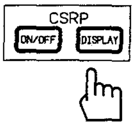
CSRP
CSRP
MODE A

Note:
The current preset data is displayed in sequence when the power is turned on with the CSRP ON.

Press the MODE key to change the CSRP mode. When the modes are changed, the setting parameters of the new mode is displayed.

To confirm the settings presetted in the current source

Press the CSRP DISPLAY button on the remote control unit.
This operation does not turn on or off CSRP.



Presetting Procedure

- Before you make any presettings, press the desired Source Select key (except TAPE 2) or select Tuner preset channel (CH-1 to CH-40) to make the required setting.

1. Press the MEMORY key to blink the MEMORY indicator.

MODE
CSRP
MEMORY
MODE A

2. Select the CSRP mode (A, B, C) with the MODE key.

MEMORY
CSRP
MEMORY
MODE B

3. Press the MEMORY key again while the indicator is blinking (about 5 seconds).

When the presetting is complete, the display will show preset data in the following order with the indicator blinking rapidly:

SOURCE, CSRP MODE, VOLUME, BALANCE, LOUDNESS → S.E.A. → DAP, PRO LOGIC or 3CH LOGIC

Note:
Press the MEMORY key again if the indicator stops blinking before you press the MEMORY key.
Even with the SEA key ON, the SEA PRESET indicator will blink when the MEMORY key is pressed if an S.E.A. preset pattern has not been previously selected. In this case, select an S.E.A. preset pattern and retry this operation.

■ CSRP TEST

When the TEST key is pressed, all the CSRP (A, B, C modes) data on each Source Select key (except TAPE 2) or tuner preset channel are displayed in the following order.

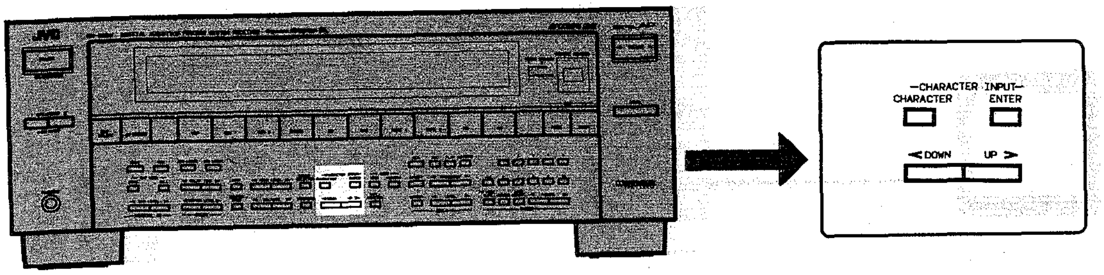
VDP ▶ VCR1 ▶ VCR2 ▶ PHONO ▶ CD ▶ DAT ▶ TAPE1 ▶ FM ▶ AM ▶ (back to the beginning)

For FM and AM, the last selected preset channel is recalled.

Notes:
- Sound output is suppressed while a CSRP test is in progress.
- All other operations are disabled while a CSRP test is in progress.

To exit from this mode, press the TEST key again.

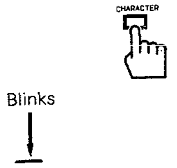
Entering Characters


—CHARACTER INPUT—
CHARACTER
ENTER
◄DOWN
UP ►

Names can be assigned to S.E.A. manual preset patterns, Tuner preset channels, and CSRP modes. Up to five characters can be used for each name.

1. Select the party to which a name is to be assigned.
   - Select the preset pattern (A to E) with the PRESET key to assign names to S.E.A. manual preset patterns.
   - Select channel with the Tuner numeric keys to assign names to Tuner preset channels.
   - Press the CSRP MEMORY key, then press the CSRP MODE key to assign names to CSRP modes (A to C).

2. Press the CHARACTER key.


CHARACTER
Blinks

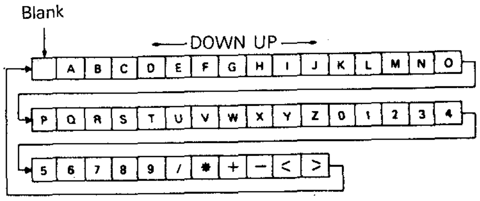
The cursor at the left blinks.
If a character has already been entered, the character blinks.

Notes:
- When a preset S.E.A. pattern has been called, press the CHARACTER key while the pattern is displayed (about 5 seconds). If the display is cleared before you press the CHARACTER key, press the PRESET key.
- When a tuner preset channel is being called, press the CHARACTER key when the VOLUME indication has been cleared.
- When a tuner preset channel is being called while the CSRP key is set to ON, press the CHARACTER key when the CSRP preset data indication has been cleared.

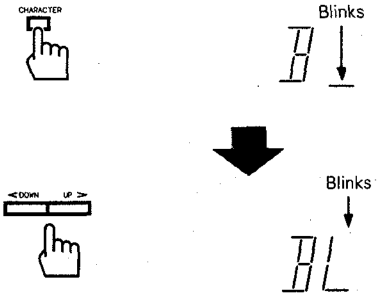
3. Select the appropriate characters with the UP and DOWN keys.

◄DOWN
UP ►
Blinks
B

Alphanumeric character order.

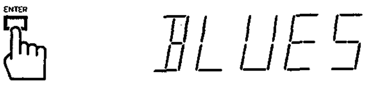

Blank
DOWN UP
A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z 0 1 2 3 4
5 6 7 8 9 / ✱ + − < >

4. Press the CHARACTER key to move to the next position. Repeat steps 3 and 4.

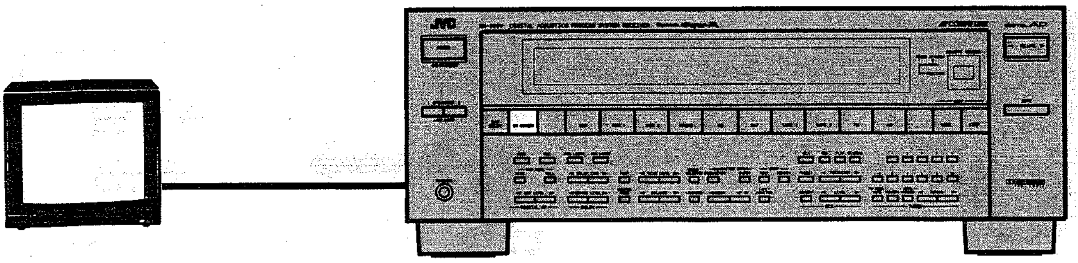

CHARACTER
Blinks
B
◄DOWN
UP ►
Blinks
BL

- To alter the characters, move the blinking cursor to the desired character for correction using the CHARACTER key.

5. When the entry is complete, press the ENTER key to store it in memory.


ENTER
BLUES

ON SCREEN



Since the SOURCE and VOLUME, and other settings are shown on the TV screen, a great number of settings can be checked at a glance. Connect the TV to the MONITOR OUT terminal.

When a video source is played back, the settings are shown against the video image and otherwise against a blue background.

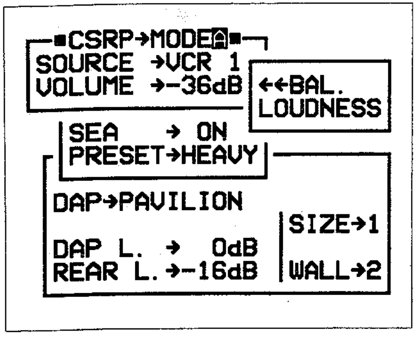
The ON SCREEN function has four modes: OFF, ON, ON(SPI) and 5 SEC.

OFF: No indication is made.
ON: The function setting indication remains on.
ON (SPI): The Spectro Peak Indicator (SPI) is indicated.
5 SEC: Settings are displayed during a 5 second interval.

Each time you press the ON SCREEN key, the mode will change in the following order.

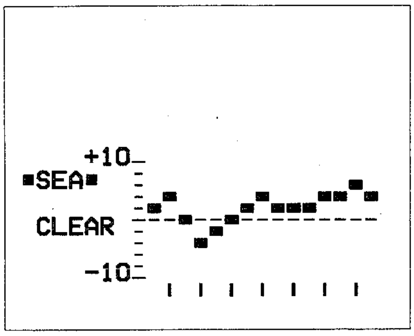
→ OFF → ON → ON (SPI) → 5 SEC

When the ON mode is used, or when one of the Source Select (except TAPE 2), VOLUME, BALANCE, LOUDNESS or other function key is pressed, the main function settings are displayed.

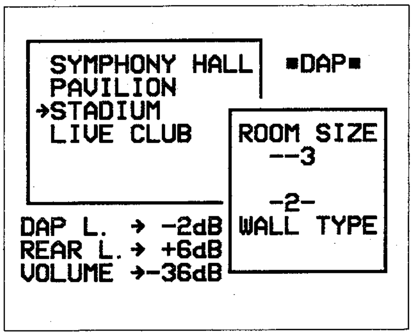


■CSRP→MODE A■
SOURCE →VCR 1
VOLUME →-36dB
←←BAL.
LOUDNESS
SEA → ON
PRESET→HEAVY
DAP→PAVILION
SIZE→1
DAP L. → 0dB
REAR L.→-16dB
WALL→2

S.E.A.
The display indicates the state of S.E.A. operation when an S.E.A. key is pressed.



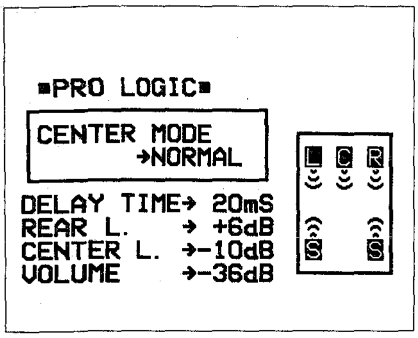
•DAP
The display indicates the state of DAP operation when a DAP key is pressed.



SYMPHONY HALL
■DAP■
PAVILION
→STADIUM
LIVE CLUB
ROOM SIZE
--3
-2-
WALL TYPE
DAP L. → -2dB
REAR L. → +6dB
VOLUME →-36dB

•PRO LOGIC

The display indicates the state of Dolby Pro Logic Surround operation when one of keys used for setting the Dolby Pro Logic Surround function is pressed.



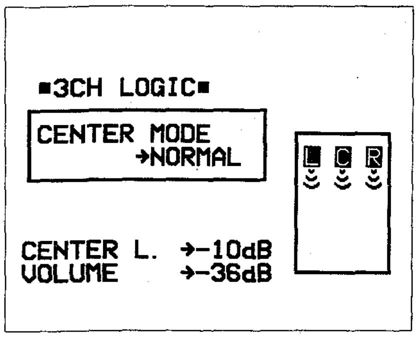
■PRO LOGIC■

CENTER MODE
→NORMAL

DELAY TIME→ 20mS
REAR L. → +6dB
CENTER L. →-10dB
VOLUME →-36dB

•3CH LOGIC

The display indicates the state of Dolby 3ch Logic operation when one of keys used for setting the Dolby 3ch Logic function is pressed.

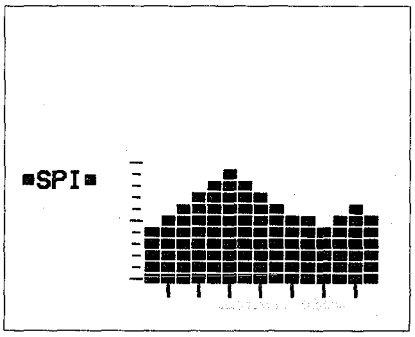


■3CH LOGIC■

CENTER MODE
→NORMAL

CENTER L. →-10dB
VOLUME →-36dB

The Spectro Peak indicator shows the input levels for the different frequencies when the ON (SPI) mode is used.



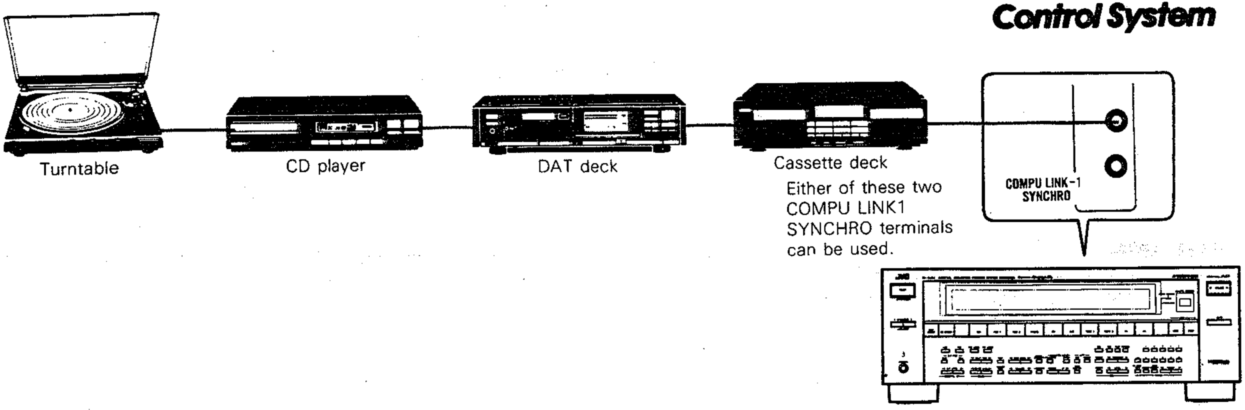
■SPI■

When one of the Source Select (except TAPE 2), VOLUME, BALANCE, LOUDNESS or other function key is pressed in the ON (SPI) mode, the main function settings are displayed for 10 seconds after which the SPI settings are displayed. When an S.E.A., DAP, Dolby Pro Logic Surround or Dolby 3ch Logic setting is made, the state of respective function is displayed for 10 seconds, after which the main function settings are displayed for 10 seconds before finally returning to display the SPI settings.

COMPU LINK Remote Control System

- **For audio terminal connections, see "Audio Components Connections".**

COMPU LINK
//// Remote ////
Control System



Either of these two COMPU LINK1 SYNCHRO terminals can be used.

JVC's exclusive "COMPU LINK" remote control system connects equipment with JVC COMPU LINK-1/SYNCHRO terminals to the remote control system. The equipment can be controlled from the remote control unit, or other functions (such as automatic source selection and synchronized recording) can be used.
For further details, see the remote control unit description in this instructions.

■ Equipment remote control

By connecting the COMPU LINK-1 SYNCHRO terminal to the receiver, the equipment that does not have REMOTE SENSOR in its main unit can be remote controlled via REMOTE SENSOR of the receiver.
For further details, see the remote control unit description in this instructions.

■ Automatic source selection

Pressing Source Select keys will automatically put the corresponding source equipment into the PLAY mode. When the PLAY key on source equipment is pressed, the corresponding Source Select key is automatically set to that source. Other source equipment shuts down about 5 seconds later.

■ Synchronized recording

Synchronized recording permits a tape deck to start recording automatically in synchronism with a CD player or turntable. Set the tape deck in the REC/PAUSE mode and press the PLAY key on the CD player or turntable. The tape deck will enter the recording mode automatically, starting synchronized recording.
Synchronized recording stops automatically after the CD player or turntable has stopped and the tape deck has entered the REC/MUTE mode for about 4 seconds. For details, refer to the tape deck instructions.

- To set the REC/PAUSE mode, press the REC and the PAUSE key at the same time. Synchronized recording is disabled if the PAUSE key is pressed after the REC and the PLAY key are pressed Simultaneously.
  For details refer to the tape deck instructions.

Notes:

- COMPU LINK remote control does not work on the tape deck connected to the TAPE 2 terminals.
  If you connect a tape deck to the TAPE 2 terminals, disconnect the remote control cable.
- If the power for any connected equipment is shut off during synchronized recording, the system will not operate properly. In this case, you must start all over again.
- During synchronized recording the Source Select key will lock in either the CD or PHONO position. This is to prevent you from accidentally stopping the recording or changing to any other source. To change to another source you must first stop synchronized recording.
- If you program track numbers on a CD player or CD auto-changer and use synchronized recording, a blank space about 4 seconds long will be left between recordings. This permits music scanning.

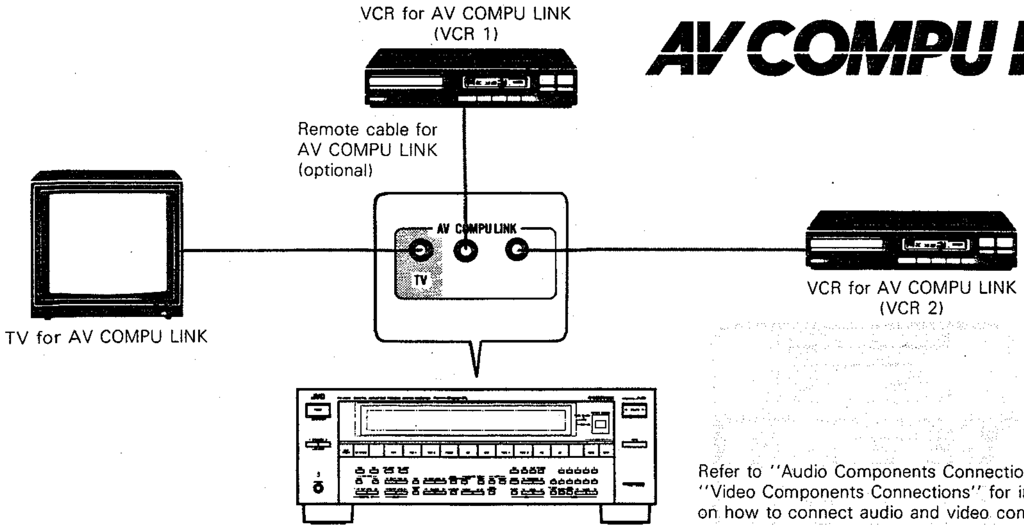
Display examples

When using the remote control unit to operate equipment which has the COMPU LINK-1/SYNCHRO terminals, the name of the source and the operating mode will appear on the display.

Symbol	▶	❚❚	■	◀◀	▶▶	⏮	⏭
Indication	▶	❚❚	■	◀◀	▶▶	⏮	⏭
"REC/PAUSE" mode	REC❚❚						
"REC/PLAY" mode	REC▶						

AV COMPU LINK System

AV COMPU LINK



Refer to "Audio Components Connections" and "Video Components Connections" for information on how to connect audio and video components, respectively.

AV systems (VCR, TV, receivers, etc.) can be more easily controlled if a JVC VCR with an AV COMPU LINK is connected to the COMPU LINK terminal on the rear panel.

The AV COMPU LINK terminals of the receiver has three jacks. The jack marked TV must be connected to TV. VCR 1 and VCR 2 can be connected to either of the AV COMPU LINK terminals except the one marked TV.

After connecting your VCRs to the AV COMPU LINK terminals, set their remote control codes (A/B) before trying to operate them. Set the VCR connected to the VCR 1 terminals to remote control code "A" and a VCR connected to the VCR 2 terminals to "B". Refer to the VCR user's manual for details of how to set the remote control code.

One-touch Video Playback
When a cassette with the safety tabs removed is inserted in the VCR, the VCR, TV and receiver will automatically be turned on and cassette playback will start.

- If a cassette with intact safety tabs is used, press the VCR "PLAY" key after the power goes on.
- Turn on the receiver before pressing the "PLAY" key on the VCR when a cassette has been inserted.
- The input source selectors of the TV and receiver are automatically selected.

AV system power ON/OFF
When the receiver is turned off, the TV and VCR are automatically turned off.

When the receiver is turned on, the components which are automatically turned on with the receiver depends on the Source Select key settings.

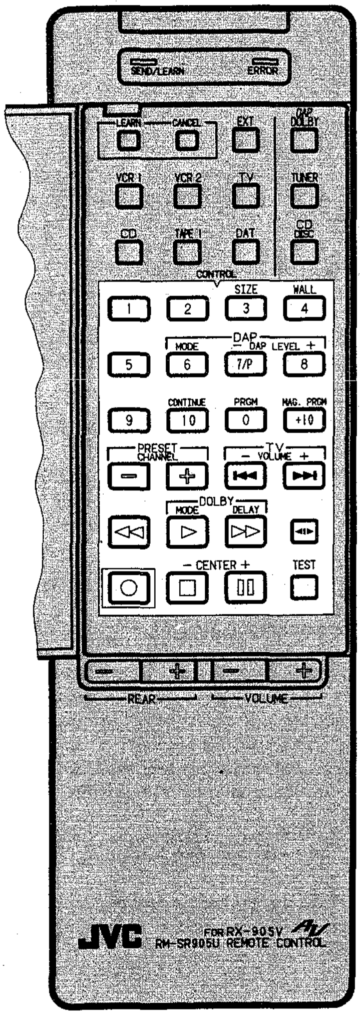
- If the Source Select keys were set to VCR 1 or VCR 2 when the power was turned off, both the TV and VCR are turned on.
- If the Source Select keys were set to an audio source when the power was turned off, only the receiver is turned on.

Automatic switching of TV input selector
When the source is selected with the Source Select keys:

- The TV input selector of a selected video source connected with an S-video cable is automatically set to S-video.
- The TV input selector of a selected video source connected with an ordinary video cable is automatically set to ordinary video.
- The TV input selector is automatically set to S-video when the selected video source is connected by both an S-video cable and a normal cable.

Notes:
- When operating the VCR by remote control, point the remote control unit directly at the VCR.
- When operating the TV by remote control, point the remote control unit at the Remote Control Sensor of the receiver. (When a remote cable is connected to the AV COMPU LINK terminals of the TV, Remote Control Sensor of the TV is disabled.)
- Make connections to the AV COMPU LINK terminals, not the COMPU LINK-1 SYNCHRO terminals.
- If the AV COMPU LINK terminals and the SWAP terminal of the VCR share the same terminal for connection, select whichever one you need.
- The AV COMPU LINK terminals must not be connected to any VCR not made for AV COMPU LINK (whether manufactured by JVC or not.)
- For connection, use the shielded audio cable with monaural mini plug (3.5 mmø) equivalent to the remote cable for COMPU LINK-1/SYNCHRO.

Operating the Source Equipment


SEND/LEARN
ERROR
LEARN
CANCEL
EXT
DAP DOLBY
VCR 1
VCR 2
TV
TUNER
CD
TAPE 1
DAT
CD DISC
CONTROL
SIZE
WALL
1
2
3
4
DAP
MODE
− DAP LEVEL +
5
6
7/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
− VOLUME +
DOLBY
MODE
DELAY
− CENTER +
TEST
REAR
VOLUME
JVC
FOR RX-905V
RM-SR905U REMOTE CONTROL

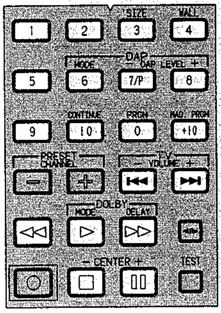
By using the keys on the internal panel, you can operate the source equipment.

- When using a JVC product
  — Use as is.
- When using a non-JVC product
  — Use after registering the remote control signals for the corresponding source equipment.

Note:
Pressing the Function Select keys will change the function mode of the PROGRAMMABLE CONTROL SECTION keys on the internal panel and the Multi Function Cursor keys on the external panel at the same time.

CD

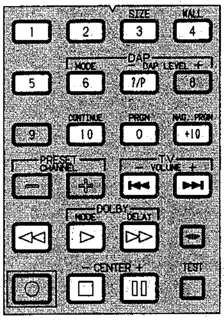
1. Press the CD key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.



1～10, +10, 0 : Select the track number.
▷ : Starts play.
□ : Stops operation.
▯▯ : Stops play temporarily. To release it, press "▷".
◁◁ : Moves backward quickly during play.
▷▷ : Moves forward quickly during play.
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the beginning of the next track.

CD Auto-changer

1. Press the CD DISC key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.

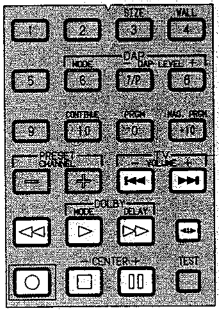


1～6, 7/P : Selects the disc number
CONTINUE : Use for continuous play.
PRGM : Use for program play.
MAG.PRGM: Use for magazine program play.
▷ : Starts play.
□ : Stops operation.
▯▯ : Stops play temporarily. To release press "▷".
◁◁ : Moves backward quickly during play.
▷▷ : Moves forward quickly during play.
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the beginning of the next track.

- To select track numbers, press the CD key before using keys 1 to 10, +10, and 0 key to enter the track number.

Cassette Deck (TAPE 1)

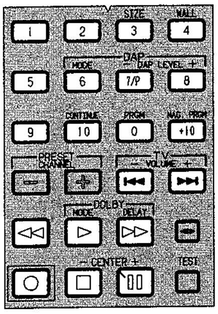
1. Press the TAPE 1 key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.



◀❙▶ : Change the tape running direction.
▷ : Starts playback.
□ : Stops operation.
▯▯ : Stops recording/playback temporarily.
To release press "▷".
◁◁ : Fast winds the tape from right to left.
▷▷ : Fast winds the tape from left to right.
⏮ : Skips to the beginning of the previous tune.
⏭ : Skips to the beginning of the next tune.
○ : Press together with "▷" to start recording.
Press together with "▯▯" to enter record-pause mode.
(Even when a remote controller signals is programmed in "▷" or "▯▯", this recording feature remains effective.)

DAT

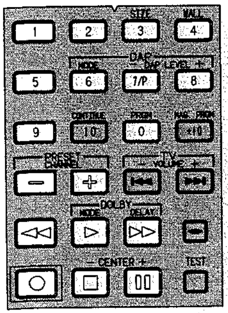
1. Press the DAT key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.



1～10, +10, 0 : Selects the tune number.
▷ : Stars playback.
□ : Stops operation.
▯▯ : Stops recording/playback temporarily.
To release press "▷".
◁◁ : Rewinds the tape.
▷▷ : Fast-forwards the tape.
⏮ : Skips to the beginning of the prevous tune.
⏭ : Skips to the beginning of the next tune.
○ : Press together with "▷" to start recording.
Press together with "▯▯" to enter record-pause mode.
(Even when a remote controller signals is programmed in "▷" or "▯▯" this recording feature remains effective.)

VCR 1, VCR 2

1. Press the VCR 1 or VCR 2 key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.

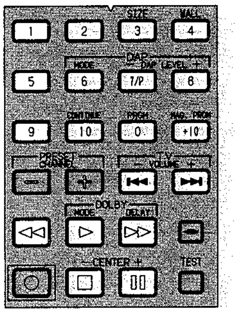


1~9, 0 : Select the VCR channel directly.
– : Scans to lower VCR channels.
+ : Scans to higher VCR channels.
▷ : Starts play back a video tape.
□ : Stops VCR operation.
▯▯ : Stops recording/playback temporarily and enters the pause/still mode. To release it press "▷".
○ : Press together with "▷" to start recording. Press together with "▯▯" to enter the record-standby mode. (Even when a remote controller signals is programmed in "▷" or "▯▯", this recording feature remains effective.)
◁◁ : Rewinds video tape.
▷▷ : Fast-forwards video tape.

- Some JVC VCRs provide two types of remote control signals (A/B mode selectable). With these VCRs, "A" mode corresponds to the VCR1 mode, and "B" mode corresponds to the VCR2 mode on this remote control unit.
  If the VCR is connected with the AV COMPU LINK terminal, set the remote control code switch of the VCR to the "A" mode. For details, refer to the Instruction Book of the VCR.

VDP

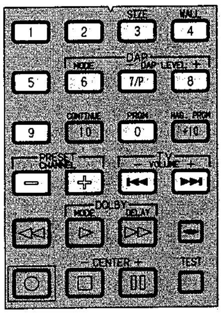
1. Press the VDP key of the Source Select keys on the external panel.
2. Use the PROGRAMMABLE CONTROL SECTION keys.



1~10, +10, 0 : Select the track number.
▷ : Starts play.
□ : Stops operation.
▯▯ : Stops play temporarily. To release it, press "▷".
◁◁ : Moves backward quickly during play.
▷▷ : Moves forward quickly during play.
⏮ : Skips to the beginning of the previous track.
⏭ : Skips to the beginning of the next track.

TV

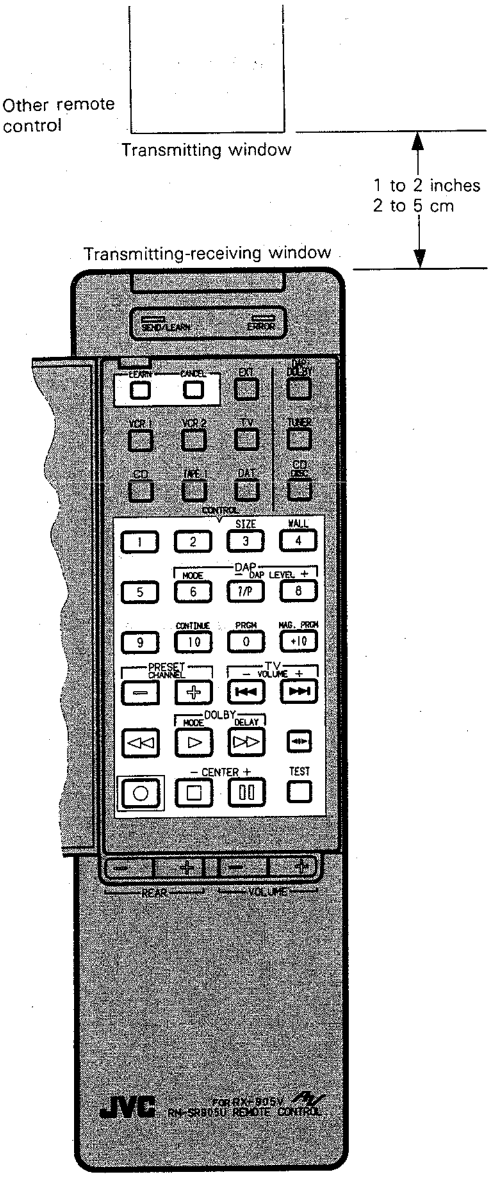
1. Press the TV key of the Function Select keys.
2. Use the PROGRAMMABLE CONTROL SECTION keys.



1~9, 0 : Selects the TV channel.
– : Scans to lower TV channels.
+ : Scans to higher TV channels.
TV VOLUME
–, + : Adjust the sound volume of TV.

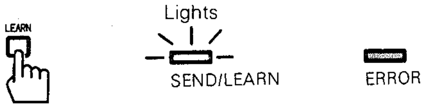
- TV key also change the input mode of the TV between TV and VIDEO.

■ Storing the Signals of Another Remote Control Unit


Other remote control
Transmitting window
1 to 2 inches
2 to 5 cm
Transmitting-receiving window
SEND/LEARN
ERROR
LEARN
CANCEL
EXT
VCR 1
VCR 2
TV
TUNER
CD
TAPE 1
DAT
CONTROL
SIZE
WALL
MODE
DAP
DAP LEVEL
CONTINUE
PRGM
PRESET CHANNEL
TV VOLUME
DOLBY
MODE
DELAY
CENTER
TEST
REAR
VOLUME
JVC
FOR RX-905V
RM-SR805U REMOTE CONTROL

- Signals of other remote controls can be stored with the PROGRAMMABLE CONTROL SECTION keys and POWER (TV or VCR) key. You can control the JVC audio, video, and other remote controllable equipment directly from the remote control unit.
- You can program different signals for the source units selected with the Function Select keys in the PROGRAMMABLE CONTROL SECTION keys.
- Place both remote control units on a flat surface.
  Be sure that the transmitter window of the other remote control unit is about 1 ~ 2 inches (2 ~ 5 cm) from the transmitting-receiving window. If the units are too close or too far apart, signals may not be stored properly.

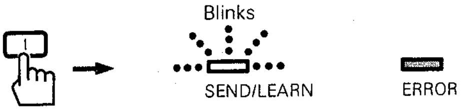
1. Press the LEARN key to set this remote control unit to LEARN mode.


LEARN
Lights
SEND/LEARN
ERROR

Be sure not to press the LEARN key strongly with a pointed article such as a ballpoint pen, otherwise the VCR may be damaged.

2. Select the function mode required to be programmed with any of the Function Select keys.

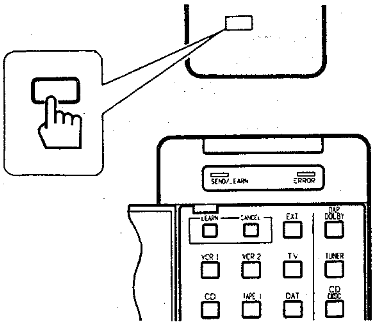
3. Press the desired key for memorizing.

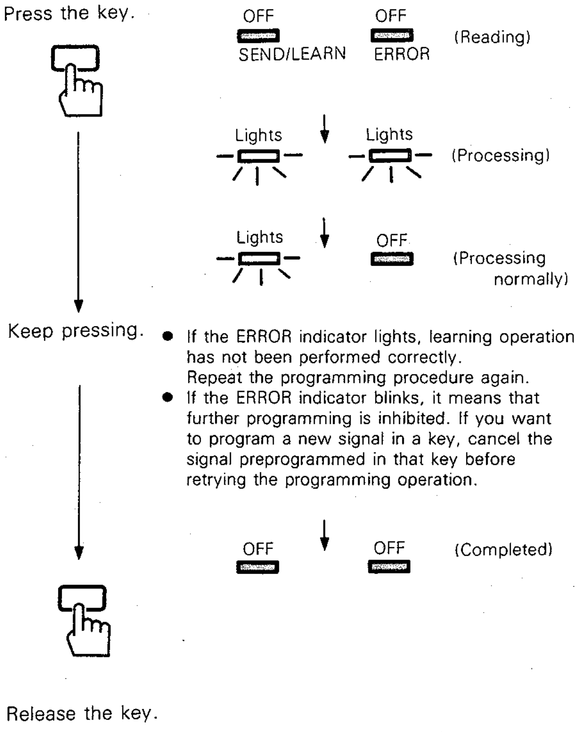

Blinks
SEND/LEARN
ERROR

Continue pressing the key until the SEND/LEARN indicator begins to blink.

- If the ERROR indicator lights when the SEND/LEARN indicator is blinking, the key you pressed already has a function stored in it. If you continue with the storing procedure, the previously stored information will be cleared and the new information will be stored instead. If you want to keep the previously stored information, select another learning key and press it.

4. While the SEND/LEARN indicator is still blinking, press continuously the key you want to learn on the other remote control unit.
- If the SEND/LEARN indicator stops blinking before you press the key on the other remote control unit, begin again from step 3.





- If the ERROR indicator lights, learning operation has not been performed correctly. Repeat the programming procedure again.
- If the ERROR indicator blinks, it means that further programming is inhibited. If you want to program a new signal in a key, cancel the signal preprogrammed in that key before retrying the programming operation.

5. When programming is completed, the SEND/LEARN indicator goes off.

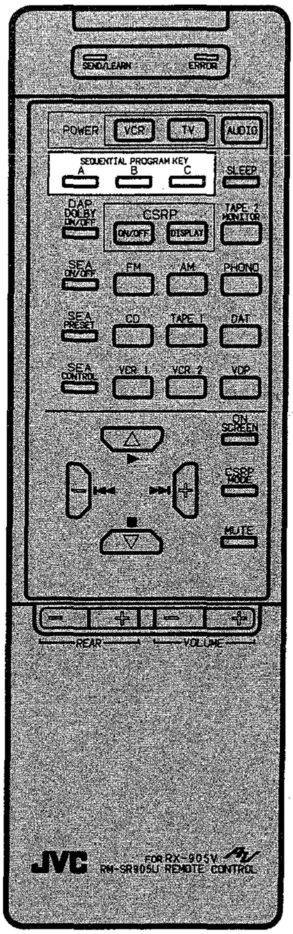
6. Press the LEARN key to reset the remote control unit to USE mode.

IMPORTANT

- This unit can learn almost any remote control signal if the other unit is an infra-red type remote control unit. However, it may not be able to learn special signals or very long signals. (If you repeat the learning procedure several times and the unit still does not operate properly, it may be due to this kind of problem.)
- Some remote control transmit a number of instructions simultaneously (when programming the timer of a TV/VCR. for example); in such a case, the unit may not operate correctly.
- When you use the Recording function, be sure you do not accidentally erase something already recorded on the tape.
- Even when the programming operation has been performed without any problem, the key may not operate or subsequent operation may not be possible. This is because some components may not accept remote control signals which are slightly different from the original ones.
  If this happens, cancel the previously stored signals then perform the learning operation again. (To cancel the stored signal, refer to the section "How to cancel programmed signals")
- For operations which require pressing two keys together, you must store both functions in the same key by pressing both function keys together on the other remote control unit.
- When batteries in the other remote control unit are exhausted, signals may not be stored properly.
- When a new signal is programmed to the PROGRAMMABLE CONTROL SECTION key, which has the same function as the Multi Cursor key on the external panel, the function of the Multi Cursor key is also modified.

mode	CD,DAT				TAPE1, VCR1, 2			
PROGRAMMABLE CONTROL SECTION key	▷	⏮	⏭	□	▷	◁◁	▷▷	□
Multi Cursor key	▶	⏮	⏭	■	▶	⏮	⏭	■

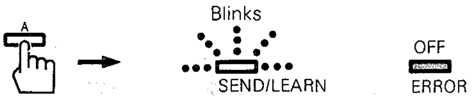
■ Simplifying storage operation


SEND/LEARN
ERROR
POWER
VCR
TV
AUDIO
SEQUENTIAL PROGRAM KEY
A
B
C
SLEEP
DAP DOLBY ON/OFF
CSRP
ON/OFF
DISPLAY
TAPE 2 MONITOR
SEA ON/OFF
FM
AM
PHONO
SEA PRESET
CD
TAPE 1
DAT
SEA CONTROL
VCR 1
VCR 2
VDP
ON SCREEN
CSRP MODE
MUTE
REAR
VOLUME
JVC
FOR RX-905V
RM-SR905U REMOTE CONTROL

Functions of this remote control unit (preset or newly programmed) can be stored in the desired order with the SEQUENTIAL PROGRAM KEY (A, B, and C) for individual operations, preferably for frequently used operations. The simplified operation can be performed by pressing the SEQUENTIAL PROGRAM keys.

1. Press the LEARN key.

2. Press the selected SEQUENTIAL PROGRAM key (A, B, C).

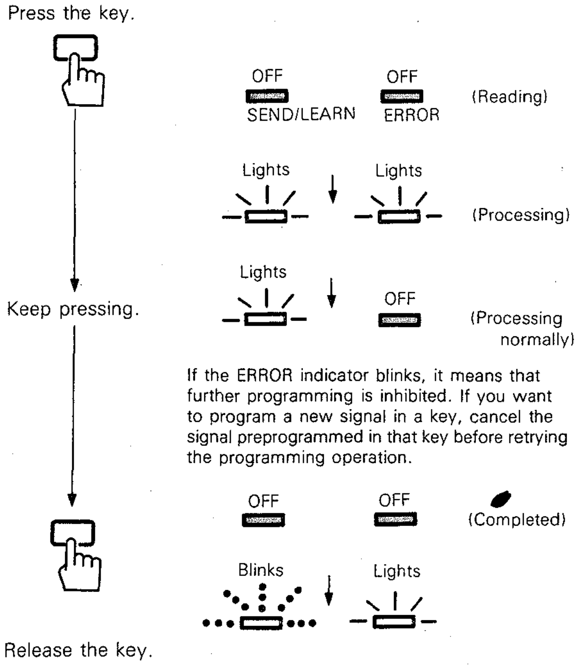

A
Blinks
SEND/LEARN
OFF
ERROR

- If the ERROR indicator lights when the SEND/LEARN indicator is blinking, it means that an operation procedure already been programmed in that key. If you proceed, a new procedure appended to the procedure programmed in the key. To program a new procedure in the key, cancel the preprogrammed procedure first.
  Refer to the section "How to cancel programmed signals."
- If only the ERROR indicator lights, incorrect operation is assumed.

3. Store operations one by one.

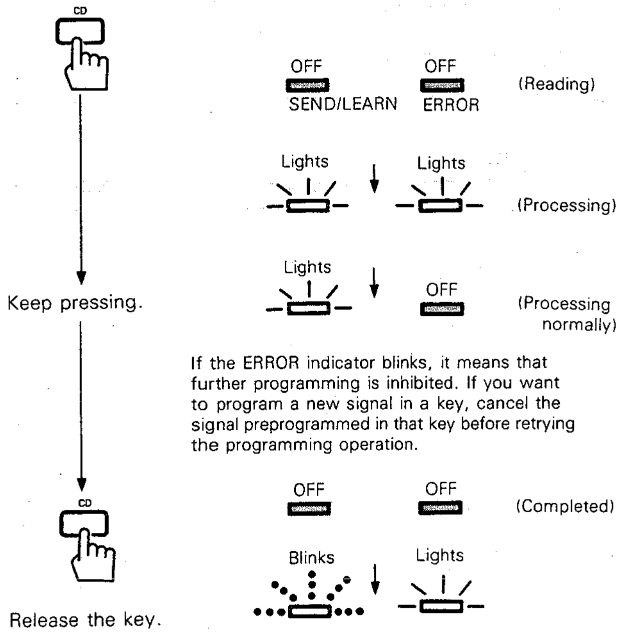
<For example: Program the operation for turning on the power to the receiver to play a CD>

- Press the POWER (AUDIO) key while the SEND/LEARN indicator is blinking.
- If the SEND/LEARN indicator stops blinking before you press the key, start again from step 2.


Press the key.
OFF
SEND/LEARN
OFF
ERROR
(Reading)
Lights
Lights
(Processing)
Keep pressing.
Lights
OFF
(Processing normally)
OFF
OFF
(Completed)
Blinks
Lights
Release the key.

If the ERROR indicator blinks, it means that further programming is inhibited. If you want to program a new signal in a key, cancel the signal preprogrammed in that key before retrying the programming operation.

4. Press the CD key of the Source Select keys while the SEND/LEARN indicator is blinking.



If the ERROR indicator blinks, it means that further programming is inhibited. If you want to program a new signal in a key, cancel the signal preprogrammed in that key before retrying the programming operation.

- The indicator lights or blinks each time operations are stored. Pay attention to the indicator for correct processing. Up to 16 steps can be stored for each combination of key and mode.

5. Press the ▶ key while the SEND/LEARN indicator is blinking.

6. Press the LEARN key again to set the remote control unit to USE mode.

Notes:

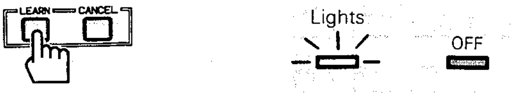
- Two keys cannot be pressed together, for example, REC + PLAY or REC + PAUSE.
- The SEQUENTIAL PROGRAM KEYS (A, B, and C) allow you to program up to three operation procedures, each consisting of up to 16 steps. Depending on the type of signal to be programmed, not all these steps may not be programmed. If the ERROR indicator blinks three times during a programming operation, it means that further programming is inhibited.

When programming a sequence of operations to control TV, do not bring an operation of selecting a channel or adjusting volume immediately after an opration of turning on power. Otherwise, the stored operations may not be reproduced as programmed.
(This is because some TVs do not immediately become ready to be controlled when turned on.)
Insert two or three operations not related to TV (e.g. operations to control VCR) between an operation of turning the TV power on and an operation of selecting a channel or any other operation to control TV.

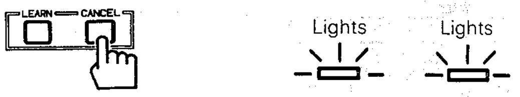
■ How to cancel programmed signals

Canceling all the signals stored for a mode of the PROGRAMMABLE CONTROL SECTION keys, or canceling the operation procedure stored with the SEQUENTIAL PROGRAM keys.

1. Press the LEARN key.

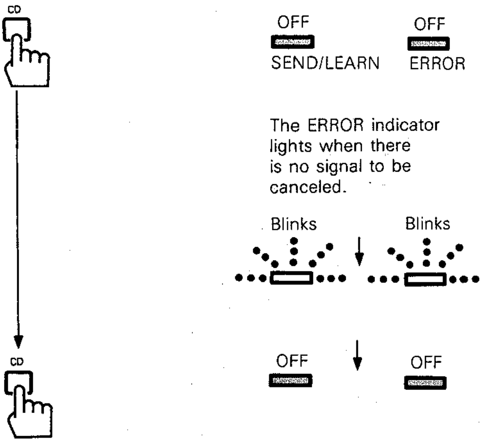


2. Press the CANCEL key.



3. Press the desired Function Select key for cancellation.

Press the key



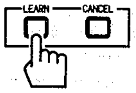
The ERROR indicator lights when there is no signal to be canceled.

Canceling completed.

Release the key.

- When cancelling is completed, the remote controller exits from CANCEL mode, and enters the LEARN mode.

4. Press the LEARN key.



This resets the Remote Control unit to the USE mode.

- If you cancel a signal programmed in a key having a signal preset, the key will be reset to the preset signal and further cancellation is inhibited.

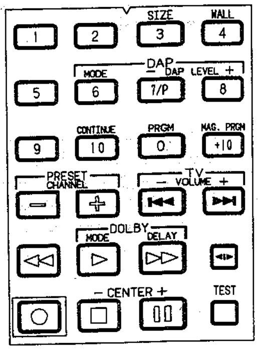
Note:

- NEVER REMOVE THE BATTERIES while a canceling operation is in progress. If normal operation is not possible even when, having removed the batteries by mistake, they have been reinstalled, remove the batteries and leave the RM-SR905U for about 12 hours. In this case, normal operation will be restored but all the stored data will be cancelled and will be have to perform programming operations again.

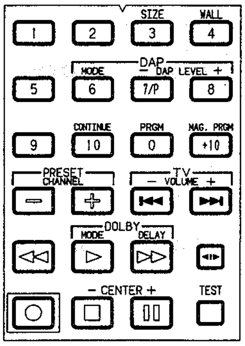
■ PROGRAMMABLE CONTROL SECTION

Other remote control signals for each equipment can be memorized with the PROGRAMMABLE CONTROL SECTION keys. (Use the Function Select keys for switching the functions.)
Complete the following columns with the memorized signals:

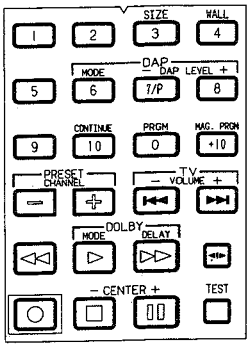
CD


SIZE
WALL
1
2
3
4
MODE
DAP
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

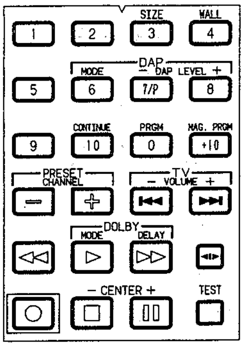
DAT


SIZE
WALL
1
2
3
4
MODE
DAP
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

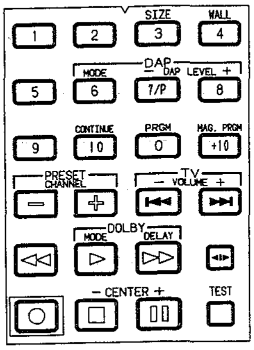
TAPE 1


SIZE
WALL
1
2
3
4
MODE
DAP
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

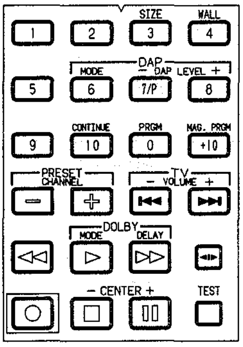
EXT


SIZE
WALL
1
2
3
4
MODE
DAP
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

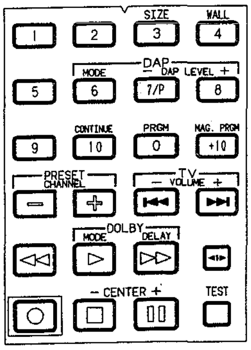
VCR 1


SIZE
WALL
1
2
3
4
DAP
MODE
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

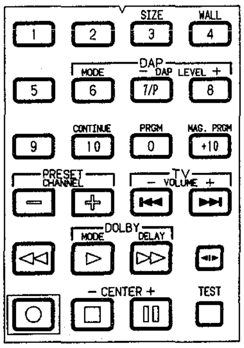
VDP


SIZE
WALL
1
2
3
4
DAP
MODE
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

VCR 2


SIZE
WALL
1
2
3
4
DAP
MODE
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

TV


SIZE
WALL
1
2
3
4
DAP
MODE
– DAP LEVEL +
5
6
T/P
8
CONTINUE
PRGM
MAG. PRGM
9
10
0
+10
PRESET CHANNEL
TV
– VOLUME +
DOLBY
MODE
DELAY
– CENTER +
TEST

Troubleshooting

Problem	Possible Cause	Solutions
Receiver does not play; Indicators do not light up.	Power cord not plugged in.	Plug Power cord into an AC outlet.
No sound from the speakers.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	SPEAKERS keys not set correctly.	Press the SPEAKERS keys in or out as desired.
Sound from one speaker only.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	Balance Control may be set to one extreme.	Adjust Balance Control so both speakers have sound.
Continuous hiss or buzzing during FM reception.	Incoming signal may be too weak.	Adjust antenna.
		Station may be too far away to receive.
	Incorrect antenna used.	Check with your dealer to make sure you are using the correct type of antenna.
	Antenna not connected properly.	Make sure all antennas are properly connected.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna further away from the road.
Loud hum during record playing.	Turntable not connected properly.	Check the turntable manual. Ground the turntable if required.
	Interference from other electrical appliances.	Try moving the power cord or plugging into a different outlet.
Howling during record playing.	Turntable too close to a speaker.	Move speakers away from the turntable.

Specifications

AMPLIFIER SECTION

Output power (CD IN→SP.OUT)	
Front channel	**120 watts per channel, min. RMS, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic distortion.**
Center channel	70 watts, min. RMS, into 8 ohms at 1 kHz, with no more than 0.7 %** total harmonic distortion
Rear channel	30 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz, with no more than 0.7 %** total harmonic distortion.
Total harmonic distortion	0.003 %** at 120 watts (1 kHz, 8 ohms)
Inter modulation distortion	0.007 % at 120 watts
Input sensitivity/impedance	
PHONO	2.5mV/47k ohms
TAPE 1 TAPE 2 DAT CD, VDP VCR 1 VCR 2	230 mV/47k ohms
Recording output level	230mV
Frequency response	
PHONO	20 Hz — 20 kHz (± 0.5 dB)
TAPE 1 TAPE 2 DAT CD, VDP VCR 1 VCR 2	5 Hz — 50 kHz (+0, −1 dB)
RIAA phono equalization	±0.5 dB (20 Hz−20 kHz)
Signal-to-noise ratio	
PHONO	80 dB ('66 IHF) 80 dB ('78 IHF, REC OUT)
TAPE 1 TAPE 2 DAT CD, VDP VCR 1 VCR 2	100 dB ('66 IHF), 85 dB ('78 IHF)

S.E.A. SECTION

Center frequencies	63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 16 kHz
Control range	±10 dB

FM TUNER SECTION (IHF)

Tuning range	87.5 MHz — 108.0 MHz
Usable sensitivity	Mono 10.8 dBf (0.95μV/75 ohms)
50 dB quieting sensitivity	Mono 16.3 dBf (1.8 μV/75 ohms) Stereo 38.3 dBf (22.5 μV/75 ohms)
Signal-to-noise ratio (IHF-A net, 85 dBf)	Mono 81 dB Stereo 73 dB
Total harmonic distortion (1 kHz)	Mono 0.15% Stereo 0.2%
Frequency response	30 Hz — 15 kHz (+0.5, −3 dB)
Capture ratio (85 dBf)	1.5 dB
Alternate channel selectivity	65 dB (± 400 kHz)
Image response ratio	80 dB (at 98 MHz)
IF response ratio	85 dB (at 98 MHz)
Stereo separation	40 dB (at 1 kHz)

AM TUNER SECTION

Tuning range	530 kHz — 1,710 kHz
Sensitivity	30 μV* (external antenna) 300 μV/m* (loop antenna)
Signal-to-noise ratio	50 dB* (100mV/m)
Selectivity	38 dB, ±10 kHz
Image response ratio	40 dB*
IF response ratio	60 dB
Total harmonic distortion	0.5%* (100 mV/m)

VIDEO SECTION

Output signal level VCR 1 VCR 2 MONITOR OUT	1 Vp-p (at 1 Vp-p input)
Impedance	75 ohms, unbalanced
Synchronization	Negative
Signal-to-noise ratio	45 dB
Crosstalk	45 dB (3.58 MHz)

GENERAL

Power requirements	AC 120V∿, 60 Hz
Power consumption	530 watts, 650 VA
Dimensions (W × H × D)	17-3/16″ × 6-3/16″ × 15-1/2″ (435 × 157 × 393 mm)
Weight	27.6 lbs. (12.5 kg)

* Measured at 1,000 kHz.
** Measured by JVC Audio Analysis System.

Design and specifications subject to change without notice.

Description of Major ICs

■ MN171202JPD (IC461) : Display Controller

Pin function

NO.	symbol	I/O	Functions
1	VDD	—	Power supply (+5V)
2~17	P24~P9	O	FL segment control output.
18	Vpp	—	−38V.
19~26	P8~P1	O	FL segment control output.
27	DATA0	I	Data input from IC401.
28	DATA1	I	Data input from IC401.
29	DATA2	I	Data input from IC401.
30	DATA3	I	Data input from IC401.
31	JPC STB	I	Strobe signal input from IC401.
32	JPC REQ	O	Request signal output to IC401.
33	JPC BUSY	I	Busy signal input to IC401.
35	BUSY	I	Busy signal input from IC486.
36	SCK	O	Serial clock output to IC486.
37	STB	O	Strobe signal output to IC486.
38	DATA	O	Data output to IC486.
39	SPI STB	O	Strobe signal output to IC433.
40	SPI CLK	O	Serial clock output to IC433 and IC434.
41	SPI DATA OUT	I	Data input from IC434.
42	SPI DATA IN	O	Data input to IC433 and IC434.
43	$\overline{\text{RST}}$	I	Reset signal input from IC401.
44	IPC CLK	I	Clock signal input from IC401.
45	$\overline{\text{INH}}$	I	Inhibit signal input from IC401.
46	NTSC/$\overline{\text{PAL}}$	I	NTSC/PAL select.
47	SY-DET	I	Sync signal detect input.
48	SPI-CS	O	Chip select signal output to IC434.
49	SW	O	S Video select.
50		—	Not used.
51		—	Not used.
52	POR	O	RESET output to IC465.
53	CLK	O	CLK output to IC465.
54	DSP DATA	O	DATA output to IC465.
55	LOAD	O	LATCH output to IC465.
56	A	O	Data output to IC462.
57	B	O	Data output to IC462.
58	C	O	Data output to IC462.
59	D	O	Data output to IC462.
60		—	Not used.
61		—	Not used.
62		—	Not used.
63	OSC2	O	Connect to ceramic resonator (6.00MHz).
64	OSC1	I	Connect to ceramic resonator (6.00MHz).

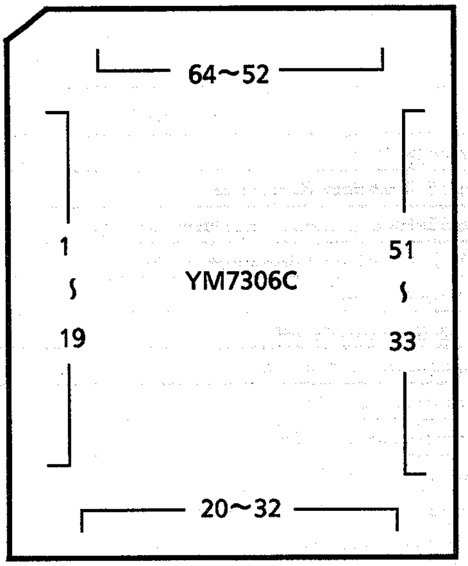
■ MN171202JPC (IC401) : System Controller

Pin function

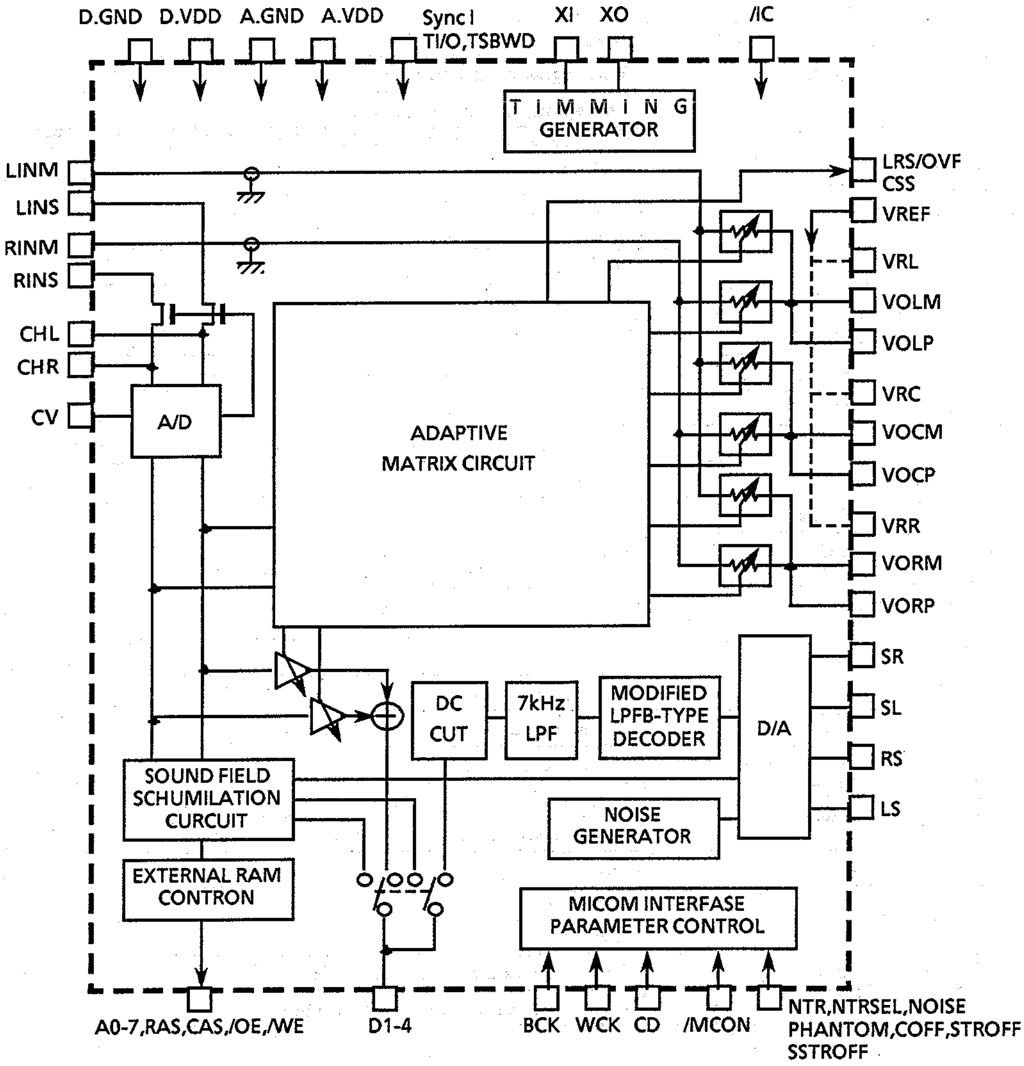
NO.	symbol	I/O	Functions
1	VDD	—	Power supply (+5V)
2~9	I/O1~I/O8	I/O	External D-RAM data I/O terminal.
10~21	A0~A10	O	External D-RAM address output terminal.
22	RECEIVED	O	RECEIVED indicatior control signal output.
23~26	DATA0~DATA3	O	Data output to IC461.
27	JPC CLK	O	Clock signal output to IC461.
28	JPC STB	O	Strobe signal output to IC461.
29	JPC REQ	O	Request signal output to IC461.
30	JPC BUSY	O	Busy signal output to IC461.
31	STB1	O	Strobe signal output to IC305,IC302 and IC211.
32	STB2	O	Strobe signal output to IC231 and IC304.
33	STB3	O	Strobe signal output to IC221.
34	STB4	O	Pull down.
35	SEA DI	O	SEA data output to IC504.
36	SEA CLK	O	SEA clock output to IC504.
37	RCK	O	Read clock output to IC291.
38	IC/RST OUT	O	Reset signal output to IC405.
39	WCK/REQ	O	Request signal output to IC405.
40	CLK	O	Clock signal output to IC405 IC302,IC304,IC305,IC211,IC221,IC231 and IC291.
41	INH	O	Inhibit signal output to IC405 and IC461.
42	DATA	O	SPI data output to IC405 and IC461.
43	RESET	I	Reset signal input.
44	$\overline{\text{INH}}$ IN	I	Inhibit signal input.
45	REMOCON	I	Remote control signal input.
46	BUSY	I	Busy signal input from IC405.
47	DCS IN2	I	DCS IN2 signal input.
48	DCS OUT2	O	DCS OUT2 signal output.
49	VCR OUT	O	AV compulink signal output for VCR.
50	VCR IN	I	AV compulink signal input for VCR.
51	TV OUT	O	AV compulink signal output for TV.
52	TV CONT	O	Control the remote signal to TV.
53		O	DATA signal output to IC402.
54		O	Clock signal output to IC402.
55	$\overline{\text{CE}}$	O	Chip enable signal output for external D-RAM.
56	$\overline{\text{WE}}$	O	Write enable signal for external D-RAM.
57	TUNER MUTE	O	Tuner mute signal output.
58	$\overline{\text{HOLD}}$	O	Hold signal output to IC421.
59	$\overline{\text{RST}}$	O	Reset signal output to IC421 and IC461.
60		—	Not used.
61		—	Not used.
62		—	Not used.
63	OSC2	O	Connect to ceramic resonator (6.00MHz).
64	OSC1	I	Connect to ceramic resonator (6.00MHz).

■ YM7306C (IC661) ········ DOLBY PROLOGIC

1. Top View

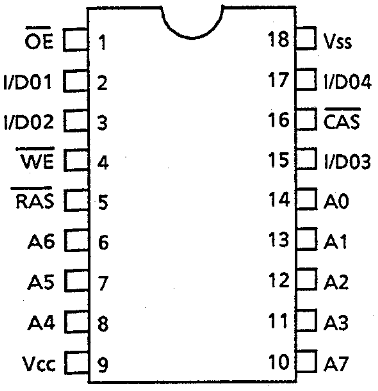

64~52
1
19
YM7306C
51
33
20~32

2. Inner Block Diagram

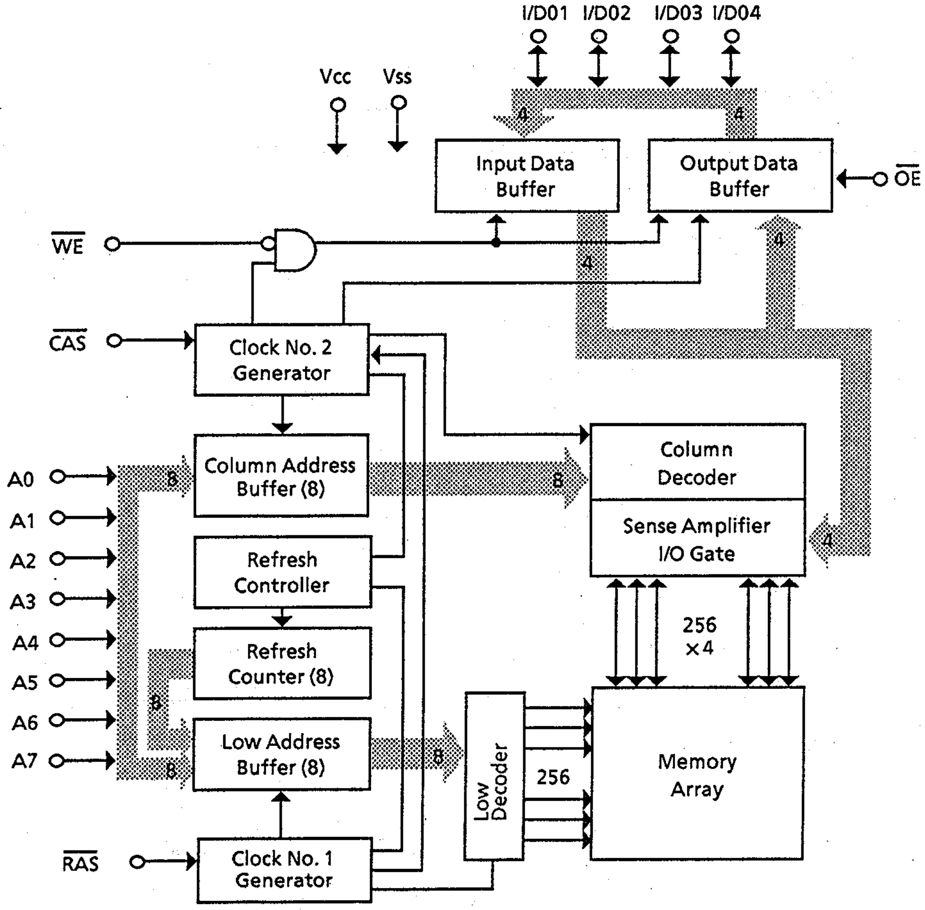

D.GND
D.VDD
A.GND
A.VDD
Sync I
TI/O,TSBWD
XI
XO
/IC
TIMMING GENERATOR
LINM
LINS
RINM
RINS
CHL
CHR
CV
A/D
ADAPTIVE MATRIX CIRCUIT
LRS/OVF
CSS
VREF
VRL
VOLM
VOLP
VRC
VOCM
VOCP
VRR
VORM
VORP
DC CUT
7kHz LPF
MODIFIED LPFB-TYPE DECODER
D/A
SR
SL
RS
LS
SOUND FIELD SCHUMILATION CURCUIT
NOISE GENERATOR
EXTERNAL RAM CONTRON
MICOM INTERFASE PARAMETER CONTROL
A0-7,RAS,CAS,/OE,/WE
D1-4
BCK
WCK
CD
/MCON
NTR,NTRSEL,NOISE
PHANTOM,COFF,STROFF
SSTROFF

■ LH2464-12(IC302): 65536words × 4Bit Dynamic RAM

(1) Terminal Layout

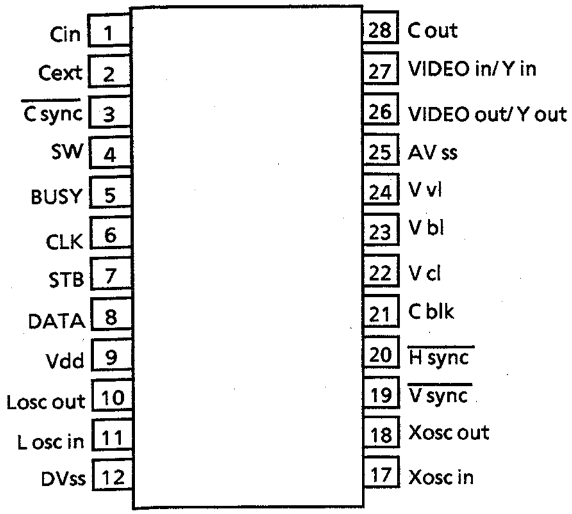

$\overline{OE}$ 1
I/D01 2
I/D02 3
$\overline{WE}$ 4
$\overline{RAS}$ 5
A6 6
A5 7
A4 8
Vcc 9
18 Vss
17 I/D04
16 $\overline{CAS}$
15 I/D03
14 A0
13 A1
12 A2
11 A3
10 A7

(2) Internal Block Diagram


I/D01
I/D02
I/D03
I/D04
Vcc
Vss
4
4
Input Data Buffer
Output Data Buffer
$\overline{OE}$
$\overline{WE}$
4
4
$\overline{CAS}$
Clock No. 2 Generator
A0
A1
A2
A3
A4
A5
A6
A7
8
Column Address Buffer (8)
8
Column Decoder
Sense Amplifier I/O Gate
4
Refresh Controller
256 ×4
Refresh Counter (8)
8
8
Low Address Buffer (8)
8
Low Decoder
256
Memory Array
$\overline{RAS}$
Clock No. 1 Generator

■ μPD6452CS-507(IC486)·····ON SCREEN Display Drive IC for Output

1. Terminal Layout



2. Pin Functions

Pin No.	Pin Name	Functions
1	C in	Input terminal of component chrominance signal.
2	C ext	Terminal of external capacitance to prevent crossing of colors.
3	C sync	Not used.
4	SW	If high level signal is input,device is set for component signal,and if low level signal is input,device is set for composite signal.
5	BUSY	Input terminal to notify micro computer of possibility of inputting of strobe after strial data have been input. Strobe can be input when low level.
6	CLK	Input terminal of clock for reading data. Data applied to DATA terminal are read at rise of clock.
7	STB	Strobe input terminal used after serial data have been input. 8-bit data are read at rise of pulse applied to STB terminal.
8	DATA	Input terminal of control data. Data are read msynchronized with clock applied to CLK terminal.
9	V dd	Terminal to supply power(+ 5V).
10 11	L osc out L osc in	Terminal to connect coil and capacitor of oscillator to generate dots and clock.
12	G ss	Connected to GND of system.
13 14	X osc in X osc out	Crystal oscillator terminal of oscillator to generate internal synchronous signal.
15	V sync	Input terminal of vertical synchronous signal. Input with active low.
16	H sync	Input terminal of horizontal synchronous signal. Oscillation starts when H-sync is at high level and is synchronized with rise of H-sync. Input with active low.
17	C blk	Output terminal of blanking signal to cut video and chrominance signals when external component is input. Output with active high.
18	V cl	Input terminal for adjustment of level of character signal (white level).
19	V bl	Input terminal for adjustment of level of background signal (black level).
20	V vl	Input terminal for adjustment of level of video /Y signal (sink tip level) made when internal synchronous signal is generated.
21	G ss	Connected to GND of system.
22	Video out /Y out	Output terminal of mixture of Vin/Yin signals and character signal made when external is input,and mixture of composite video signal and character signal when internal synchronous signal is generated and SW = 0 and mixture of component brightness signal and character signal when SW = 1.
23	Video in /Y in	Input terminal of composite video signal or component brightness signal. Input with synchronization negative and video positive.
24	C out	Output terminal of component chrominance signal. This signal opens output when external composite video signal is input and opens output synchronizing with the character and background signal output when external component signal is input. It also opens output when internal synchronous signal is generated and composite video signal ic applied,and its output level is fixed by Vv1 synchronizing with character and background signals when component signal is applied.

■ IC102 : LC7218 (PLL Synthesizer)

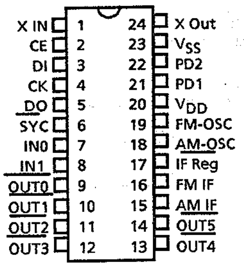
1. The main function descriptions

(1) It makes the local oscillation frequency by the control data from IC .

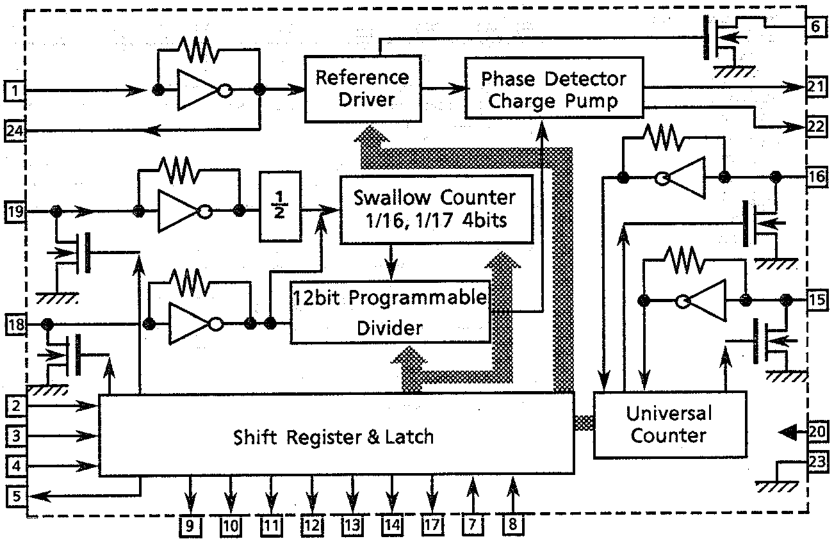
(2) Decode the control signal and transmit the signal for receiving conditions.

(3) For the best tuning, count the internal-frequency and transmit the data to IC .

2. Terminal Layout


X IN 1
CE 2
DI 3
CK 4
DO 5
SYC 6
IN0 7
IN1 8
OUT0 9
OUT1 10
OUT2 11
OUT3 12
24 X Out
23 Vss
22 PD2
21 PD1
20 VDD
19 FM-OSC
18 AM-OSC
17 IF Reg
16 FM IF
15 AM IF
14 OUT5
13 OUT4

3. Block Diagram


Reference Driver
Phase Detector Charge Pump
Swallow Counter 1/16, 1/17 4bits
1/2
12bit Programmable Divider
Shift Register & Latch
Universal Counter
1
24
19
18
2
3
4
5
6
21
22
16
15
20
23
9
10
11
12
13
14
17
7
8

4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1, 24	X in, X out	I/O	Crystal oscillator (7.2MHz).
2	CE	I	Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data.
3	DI	I	Receive the control data from the controller (IC421).
4	CK	I	This clock is used to synchronize data when transmitting the data of DI and DO.
5	DO	O	Transmit the data from LC7218 to the controller which is synchronized with CK.
6	SYC	—	Not use
7	Tuned in	I	Receive the tuned signal from IC101 (LA1266A).
8	Stop in	I	Not use
9	POWER	—	Not use
10	QSC	—	Not use
11	MONO	—	MONO
12	FM	O	It is "L" on FM mode.
13	MW	O	It is "L" on AM mode.
14	LW	—	Not use
15	AM-IF	I	Universal counter input for AM-IF from IC101 (LA1266A).
16	FM-IF	I	Universal counter input for FM-IF from IC101(LA1266A).
17	IF REQ	O	Output the "IF-signal request" to IC101 when the pin-7 (tuned in) goes to "H".
18	AM osc	I	Input the local oscillator signal of AM.
19	FM osc	I	Input the local oscillator signal of FM.
20	V_{DD}	—	This is a terminal of power supply.
21	PD1	O	PLL charge pump output: When the local oscillator signal frequency is higher than the reference frequency, high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating.
22	PD2	O	Not use
23	Vss	—	GND

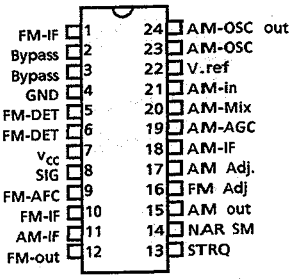
■ LA1266A (IC104) : FM AM IF AMP & detector

1. The main function descriptions

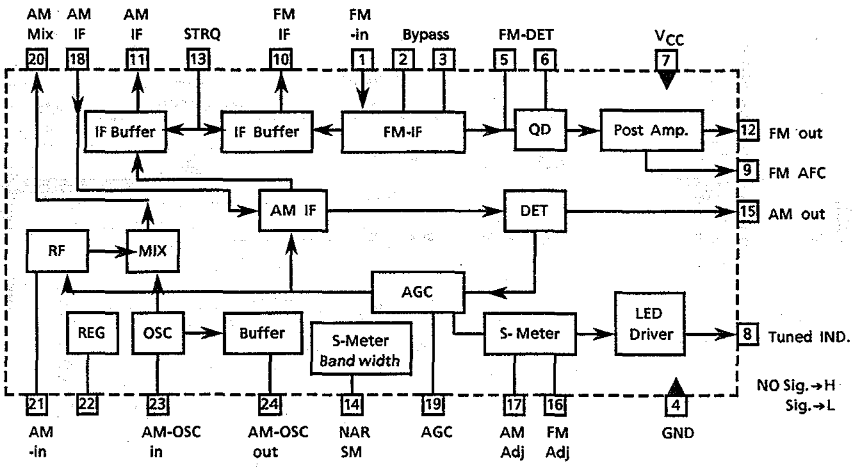
(1) Amplify and detect of FM intermodulation frequencies.

(2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Top View


FM-IF 1
Bypass 2
Bypass 3
GND 4
FM-DET 5
FM-DET 6
Vcc 7
SIG 8
FM-AFC 9
FM-IF 10
AM-IF 11
FM-out 12
24 AM-OSC out
23 AM-OSC
22 V.ref
21 AM-in
20 AM-Mix
19 AM-AGC
18 AM-IF
17 AM Adj.
16 FM Adj
15 AM out
14 NAR SM
13 STRQ

3. Block Diagram


AM Mix 20
AM IF 18
AM IF 11
STRQ 13
FM IF 10
FM -in 1
Bypass 2 3
FM-DET 5 6
Vcc 7
IF Buffer
IF Buffer
FM-IF
QD
Post Amp.
12 FM out
9 FM AFC
AM IF
DET
15 AM out
RF
MIX
AGC
REG
OSC
Buffer
S-Meter Band width
S-Meter
LED Driver
8 Tuned IND.
NO Sig.→H
Sig.→L
21 AM -in
22
23 AM-OSC in
24 AM-OSC out
14 NAR SM
19 AGC
17 AM Adj
16 FM Adj
4 GND

4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1	FM IF	I	*This is an input terminal of FM IF Signal.*
2, 3	Bypass		Bypass of FM IF Amp.
4	GND		This is the device ground terminal.
5, 6	FM DET		FM detect transformer.
7	V_{CC}		This is the power supply terminal.
8	SIGNAL	O	Mute drive and signal stop drive output when tuning. Active Low
9	FM AFC	O	This is an output terminal of voltage for FM - AFC.
10	FM IF	O	When the IF REQ signal of IC251(LC7218) applies to pin13, the signal of FM IF outputs.
11	AM IF	O	When the IF REQ signal of IC251(LC7218) applies to pin13, the signal of AM IF outputs.
12	FM out	O	FM detection output.
13	STRQ	I	The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal goes to "High".
14	NAR SM		Control the Band-width of AM signal meter.
15	AM out	O	AM detection output.
16	FM Adj		For adjust the stop level (or mute level) of FM.
17	AM Adj		For adjust the stop level (or mute level) of AM.
18	AM-IF	I	Input of AM IF Signal.
19	AM-AGC	I	This is an AGC voltage Input terminal for AM.
20	AM-MIX	O	This is an output terminal for AM mixer.
21	AM-IN	I	This is an input terminal for AM RF Signal.
22	V.REF		Control the Band-width of FM signal meter.
23	AM-OSC		This is a terminal of AM Local oscillation circuit.
24	AM-OSC out	O	AM Local Oscillation Signal output.

■ IC105 : LA3401 (FM MPX Detector)

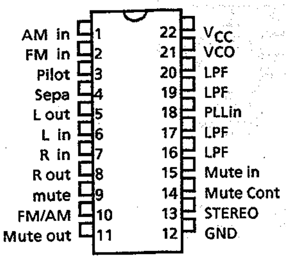
1. The main function descriptions

(1) Detect the FM Multiplex Signal (Stereo signal).

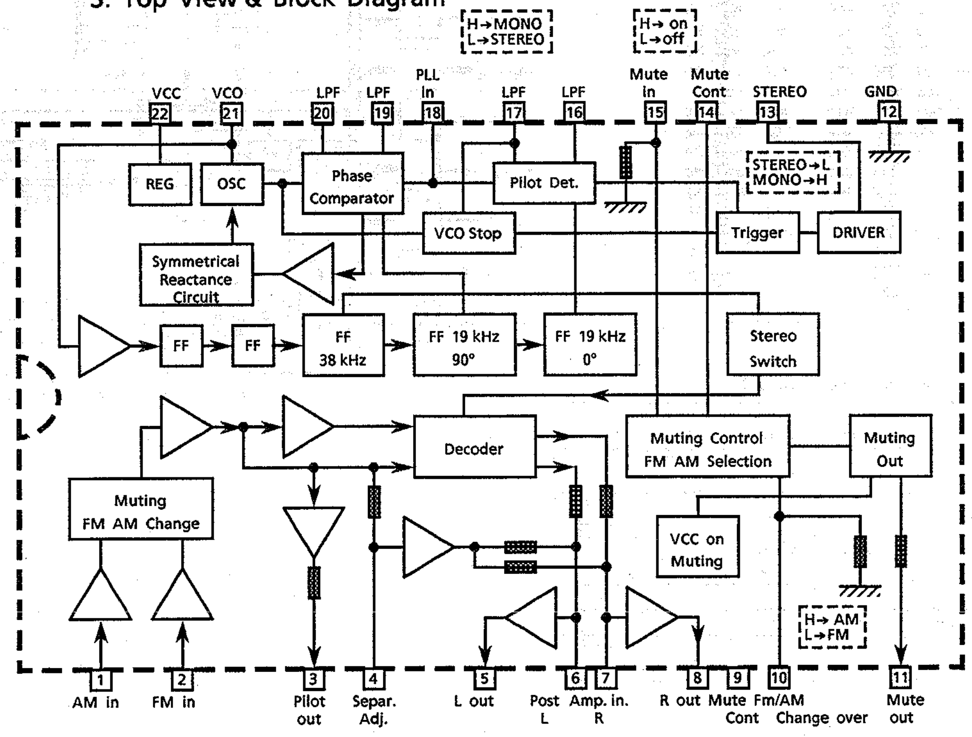
(2) When receiving FM Stereo Signal, it outputs the signal for indicator.

(3) AM/FM Audio Amplifier.

2. Terminal Layout


AM in 1
FM in 2
Pilot 3
Sepa 4
L out 5
L in 6
R in 7
R out 8
mute 9
FM/AM 10
Mute out 11
22 Vcc
21 VCO
20 LPF
19 LPF
18 PLLin
17 LPF
16 LPF
15 Mute in
14 Mute Cont
13 STEREO
12 GND

3. Top View & Block Diagram

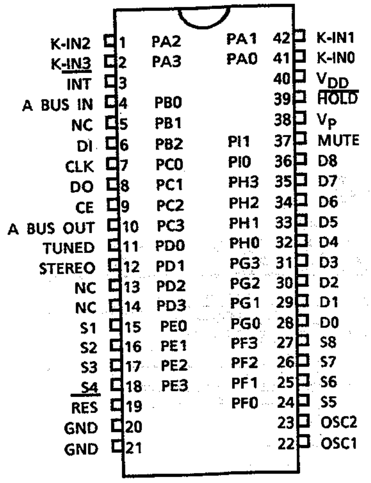

H→MONO
L→STEREO
H→on
L→off
VCC 22
VCO 21
LPF 20
LPF 19
PLL in 18
LPF 17
LPF 16
Mute in 15
Mute Cont 14
STEREO 13
GND 12
REG
OSC
Phase Comparator
Pilot Det.
STEREO→L
MONO→H
VCO Stop
Trigger
DRIVER
Symmetrical Reactance Circuit
FF
FF
FF 38 kHz
FF 19 kHz 90°
FF 19 kHz 0°
Stereo Switch
Decoder
Muting Control FM AM Selection
Muting Out
Muting FM AM Change
VCC on Muting
H→AM
L→FM
1 AM in
2 FM in
3 Pilot out
4 Separ. Adj.
5 L out
6 Post L
7 Amp. in. R
8 R out
9 Mute Cont
10 Fm/AM Change over
11 Mute out

4. Pin Function Description

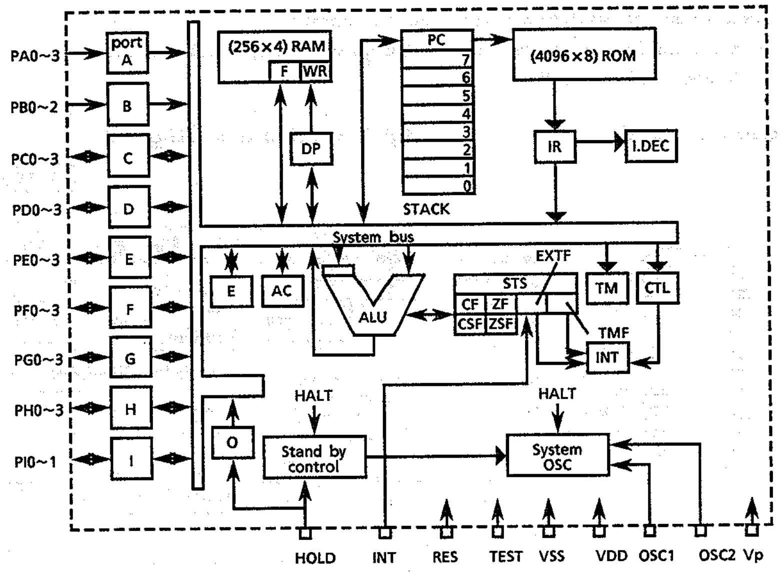
Pin No.	Symbol	I/O	Functions and Operations
1	AM in		This is an input terminal for AM detection signal.
2	FM in		This is an input terminal for FM detection signal.
3	Pilot out		Output of MPX pilot signal (Connect to Pin18).
4	Sepa. Adj.		Separation adjustment.
5	L. out	O	Left channel signal output.
6	L	O	Reversal output of Pin5.
7	R	O	Reversal output of Pin8.
8	R out	O	Right channel signal output
9	Mute Cont		The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM/AM	I	Change over the FM/AM input. "H" : AM, "L" : FM
11	Mute out	---	Not use
12	GND		Ground terminal.
13	Stereo	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	Mute Cont		The mute time is controlled by the connected capacitor when changing over the FM/AM .
15	Mute in	I	MutE signal input. "H" : Mute on, "L" : Mute off.
16	LPF		Low pass filter of pilot detector.
17	LPF		While this terminal goes to "H", the VCO stop.
18	Pilot in		PLL input.
19	LPF		Low-pass filter of PLL.
20	LPF		Low-pass filter of PLL.
21	VCO		Voltage controlled oscillator terminal.
22	V_{CC}		Power supply.

■ IC421 : LC6514B-4131 (Tuner Control & FL Driver)

1. Terminal Layout


K-IN2 1 PA2
K-IN3 2 PA3
INT 3
A BUS IN 4 PB0
NC 5 PB1
DI 6 PB2
CLK 7 PC0
DO 8 PC1
CE 9 PC2
A BUS OUT 10 PC3
TUNED 11 PD0
STEREO 12 PD1
NC 13 PD2
NC 14 PD3
S1 15 PE0
S2 16 PE1
S3 17 PE2
S4 18 PE3
RES 19
GND 20
GND 21
PA1 42 K-IN1
PA0 41 K-IN0
40 VDD
39 HOLD
38 Vp
PI1 37 MUTE
PI0 36 D8
PH3 35 D7
PH2 34 D6
PH1 33 D5
PH0 32 D4
PG3 31 D3
PG2 30 D2
PG1 29 D1
PG0 28 D0
PF3 27 S8
PF2 26 S7
PF1 25 S6
PF0 24 S5
23 OSC2
22 OSC1

2. Block Diagram


PA0~3
PB0~2
PC0~3
PD0~3
PE0~3
PF0~3
PG0~3
PH0~3
PI0~1
port A
B
C
D
E
F
G
H
I
(256×4) RAM
F
WR
DP
PC
7
6
5
4
3
2
1
0
STACK
(4096×8) ROM
IR
I.DEC
System bus
EXTF
E
AC
ALU
STS
CF
ZF
CSF
ZSF
TM
CTL
TMF
INT
HALT
HALT
O
Stand by control
System OSC
HOLD
INT
RES
TEST
VSS
VDD
OSC1
OSC2
Vp

3. Table of Key Matrix

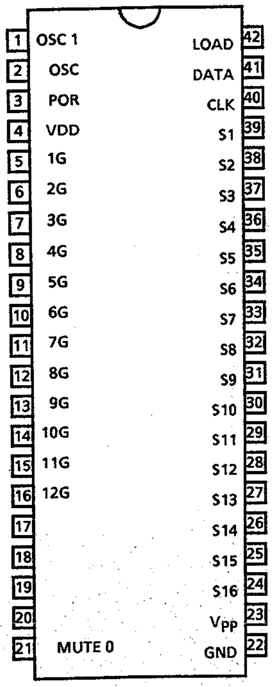
Pin No. IN / OUT	41 (K-IN0)	42 (K-IN1)	1 (K-IN2)	2 (K-IN3)
28 (D0)		MEMORY	AUTO MEMORY	
29 (D1)	FM	AM		AUTO MODE
30 (D2)	TUNING UP	TUNING DOWN		
31 (D3)	1	2	3	4
32 (D4)	5	6	7	8
33 (D5)	9	10	+10	PRESET SCAN

4. Terminal Function

Pin No.	I/O	Name	I/O	Functions
1	PA2	K-IN2	I	Key matrix input.
2	PA3	K-IN3	I	Key matrix input.
3		INT	I	Not used. (Connect to V_{DD}.)
4	PB0	A BUS IN	I	COMPU-LINK signal input.
5	PB1	NC	—	Non connection.
6	PB2	DI	I	Serial data input from PLL (IC251 : LC7218).
7	PC0	CLK	O	Serial clock output to PLL (IC251 : LC7218).
8	PC1	DO	O	Serial data output to PLL (IC251 : LC7218).
9	PC2	CE	O	Chip enable output to PLL (IC251 : LC7218).
10	PC3	A BUS OUT	O	COMPU-LINK signal output.
11	PD0	TUNED	I	Broadcast receiving when "L" is input.
12	PD1	STEREO	I	FM stereo reception when "L" is input.
13, 14	PD2~3	NC	—	Non connection.
15~18	PE0~3	S1~S4	O	Segment drive for FL display.
19		RES	I	Reset signal input.
20		GND	—	Connect to GND.
21		GND	—	Connect to GND.
22		OSC1	—	1MHz Resonator.
23		OSC2	—	1MHz Resonator.
24~27	PF0~3	S5~S8	O	Segment drive for FL display.
28~31	PG0~3	D0~D3	O	Digit drive for FL display and key matrix output.
32~33	PH0~1	D4~D5	O	Digit drive for FL display and key matrix output.
34	PH2	D6	O	Digit drive for FL display.
35	PH3	D7	O	Key matrix output.
36	PI0	D8	O	Key matrix output.
37	PI1	MUTE	O	Muting output.
38		V_P	—	−39V.
39		$\overline{\text{HOLD}}$	I	Hold signal input.
40		V_{DD}	—	+5 V.
41	PA0	K-IN0	I	Key matrix input.
42	PA1	K-IN1	I	Key matrix input.

MSC7112-01SS (IC465) : Flourescent Dispaly Driver

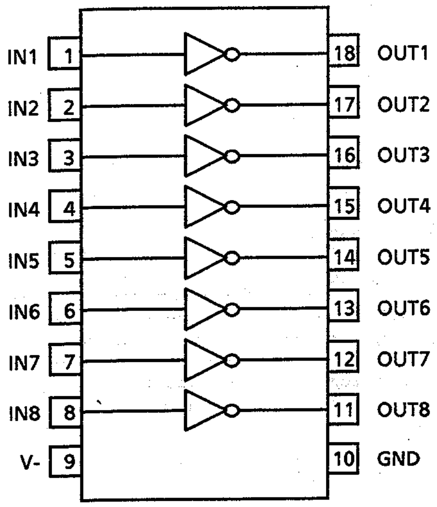
(1) Top View


1 OSC 1
2 OSC
3 POR
4 VDD
5 1G
6 2G
7 3G
8 4G
9 5G
10 6G
11 7G
12 8G
13 9G
14 10G
15 11G
16 12G
17
18
19
20
21 MUTE 0
42 LOAD
41 DATA
40 CLK
39 S1
38 S2
37 S3
36 S4
35 S5
34 S6
33 S7
32 S8
31 S9
30 S10
29 S11
28 S12
27 S13
26 S14
25 S15
24 S16
23 V_{PP}
22 GND

(2) Pin Functions

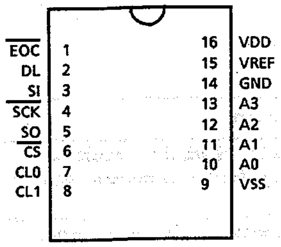
Pin No.	Pin Name	I/O	Functions
1 2	OCS 1 OSC 0	I O	Input to the oscillator circuit. Oscillator circuit is made up by connecting an external capacitor and resistor.
3	$\overline{\text{POR}}$	I	Reset signal input to the internal logic circuit when turning on.
4	V_{DD}	--	Power supply.
5~16	D1~D12	O	FL display tube drive signal.
17~21	LED 1~ LED 5	O	LED drive signal : Not use
22	GND	--	GND.
23	V_{PP}	--	$V_{DD}-V_{PP}$: Power supply for the FL drive circuit.
24~39	S1~S16	O	FL display tube drive signal.
40	CLK	I	Clock signal to the shift register.
41	DATA IN	I	Displa data to the sshift register.
42	LOAD	I	Clock signal for the display data.

MSL915ARS (IC463,464) : FL DRIVER

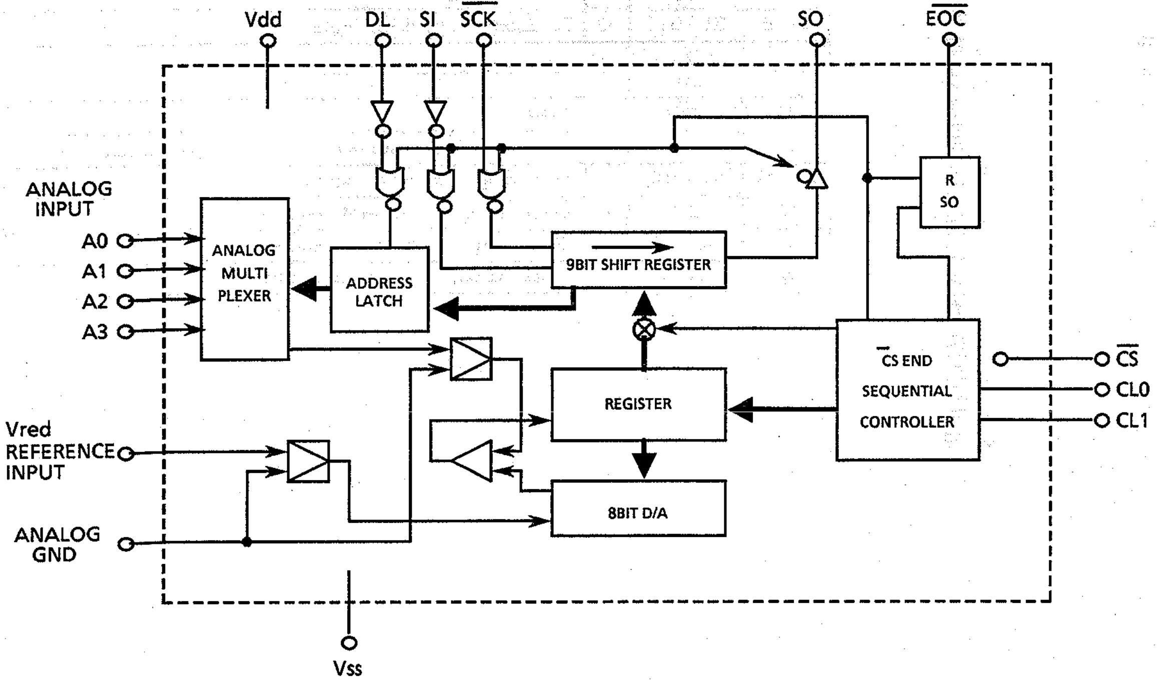

IN1 1
IN2 2
IN3 3
IN4 4
IN5 5
IN6 6
IN7 7
IN8 8
V- 9
18 OUT1
17 OUT2
16 OUT3
15 OUT4
14 OUT5
13 OUT6
12 OUT7
11 OUT8
10 GND

■ µPD7001C(IC434)····· A/D Converter

1. Terminal Layout

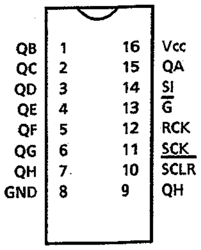

$\overline{EOC}$ 1
DL 2
$\overline{SI}$ 3
$\overline{SCK}$ 4
$\overline{SO}$ 5
$\overline{CS}$ 6
CL0 7
CL1 8
16 VDD
15 VREF
14 GND
13 A3
12 A2
11 A1
10 A0
9 VSS

2. Block Diagram


Vdd
DL
SI
$\overline{SCK}$
SO
$\overline{EOC}$
ANALOG INPUT
A0
A1
A2
A3
ANALOG MULTI PLEXER
ADDRESS LATCH
9BIT SHIFT REGISTER
R
SO
$\overline{CS}$ END SEQUENTIAL CONTROLLER
REGISTER
8BIT D/A
$\overline{CS}$
CL0
CL1
Vred REFERENCE INPUT
ANALOG GND
Vss

■ TC74HC595AP(IC291)····· 8 Bit Shift Register

1. Terminal Layout


QB 1
QC 2
QD 3
QE 4
QF 5
QG 6
QH 7
GND 8
16 Vcc
15 QA
14 $\overline{SI}$
13 $\overline{G}$
12 RCK
11 $\overline{SCK}$
10 SCLR
9 QH

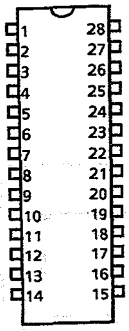
2. Function Table

Inputs					Functions
B1	SCK	SCLR	RCK	G	
X	X	X	X	H	Output (QA-QH) disable.
X	X	X	X	L	Output (QA-QH) enable.
X	X	L	X	X	Shift register is cleared.
L	↑	H	X	X	Condition of shift register in initial stage is "L". In the other stages, data from the former stage is stored.
H	↑	H	X	X	Condition of shift register in initial stage is "H". In the other stages, data from the former stage is stored.
X	↓	H	X	X	Shift register does not change.
X	X	X	↑	X	Shift register data is stored in the storage register.
X	X	X	↓	X	Shift register does not change.

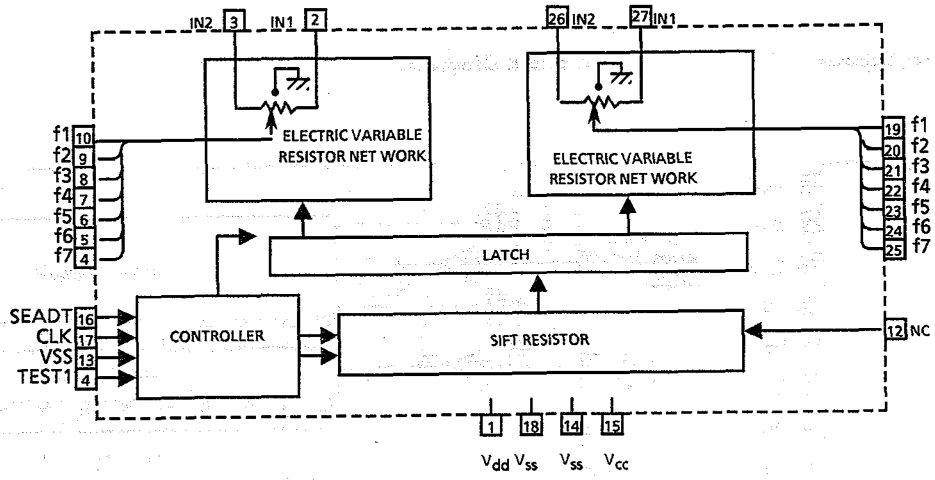
X : Don't care

LC7522(IC504) : Variable Resistor for SEA Control

1. Terminal Layout


1
2
3
4
5
6
7
8
9
10
11
12
13
14
28
27
26
25
24
23
22
21
20
19
18
17
16
15

2. Block Diagram

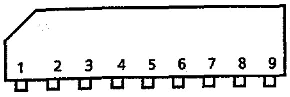

IN2 3
IN1 2
26 IN2
27 IN1
ELECTRIC VARIABLE RESISTOR NET WORK
ELECTRIC VARIABLE RESISTOR NET WORK
f1 10
f2 9
f3 8
f4 7
f5 6
f6 5
f7 4
19 f1
20 f2
21 f3
22 f4
23 f5
24 f6
25 f7
LATCH
SEADT 16
CLK 17
VSS 13
TEST1 4
CONTROLLER
SIFT RESISTOR
12 NC
1
18
14
15
Vdd
Vss
Vss
Vcc

3. Pin Functions

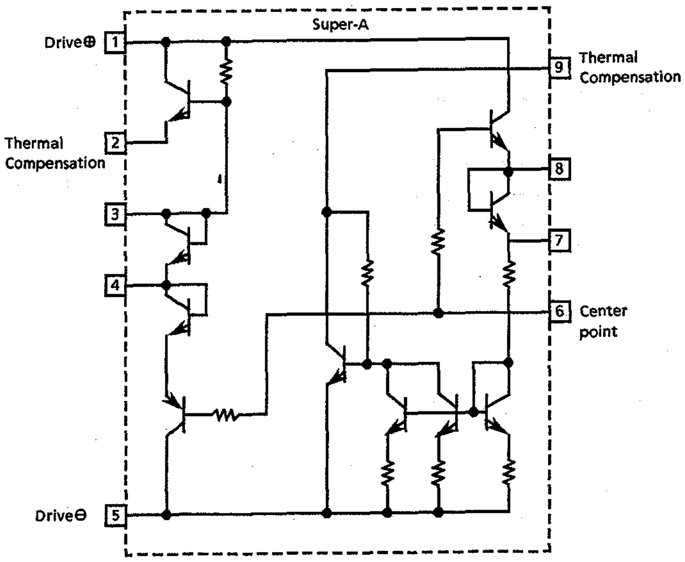
Pin No.	Symbol	Functions
1 18 13.14 15	V_{DD} GND V_{SS} V_{CC}	Power supply (+7V) Ground. Power supply (−7V) Power supply (+5V)
2,27 3, 26	IN 1 IN 2	Audio signal input The inversion signal of the operational amplifier inputs to IN 1 normally. The non-inversion signal of the operational amplifier inputs to IN 2 normally.
16	SEA DT	Data input from the CPU. Schmitt inverter type
17	SEA CLK	Clock signal input from the CPU. Schmitt inverter type
4~10 19~25	f1~f7	For connect to band-pass filter. f1~f7x2 (Left and Right)
11 12	NC NC	Not used Not used
28	NC	Not used

VC5022-2 (IC701,702) : SUPER A

1. Terminal Layout

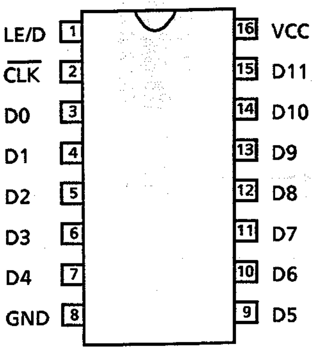


2. Block Diagram

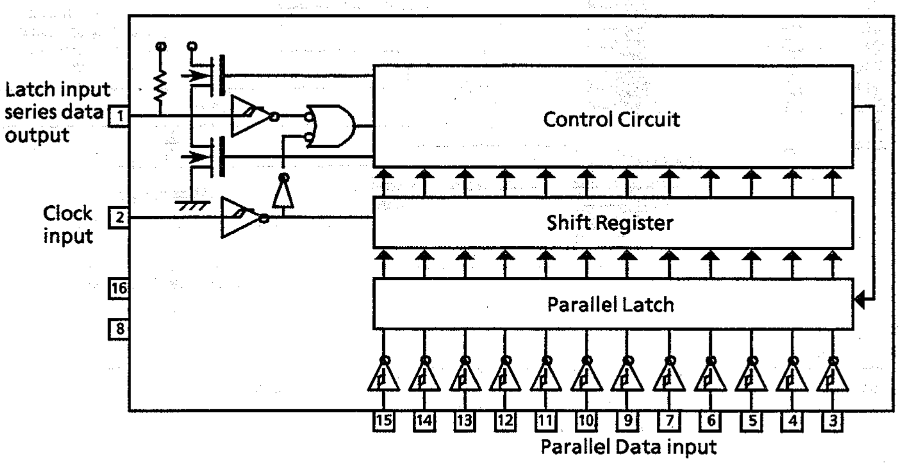

Super-A
Drive⊕ 1
Thermal Compensation 2
3
4
Drive⊖ 5
9 Thermal Compensation
8
7
6 Center point

■ M66007P (IC402) : 12BIT INPUT EXPANDER

1. Terminal Layout

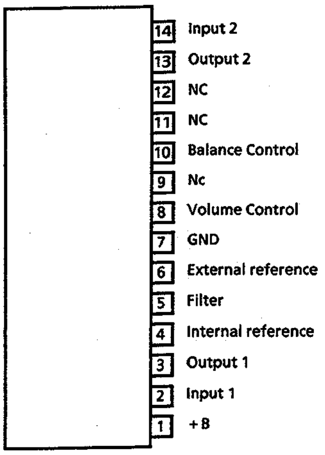

LE/D 1
CLK 2
D0 3
D1 4
D2 5
D3 6
D4 7
GND 8
16 VCC
15 D11
14 D10
13 D9
12 D8
11 D7
10 D6
9 D5

2. Block Diagram

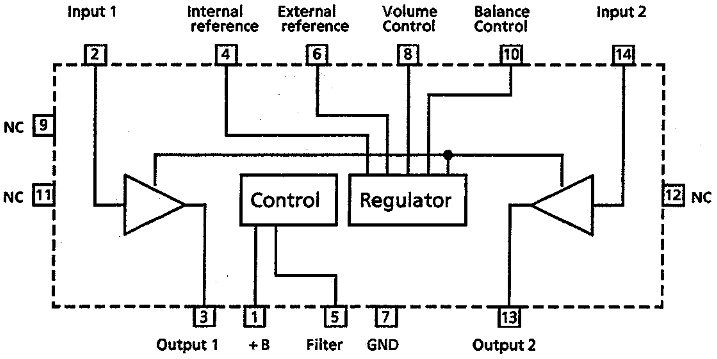

Latch input series data output 1
Clock input 2
16
8
Control Circuit
Shift Register
Parallel Latch
15 14 13 12 11 10 9 7 6 5 4 3
Parallel Data input

■ M51523AL (IC670) : Electro-volum IC

1. Terminal Layout

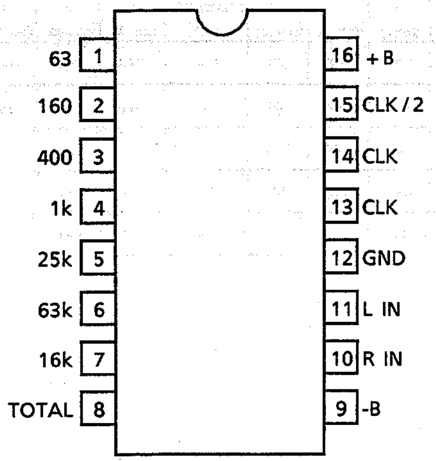

14 Input 2
13 Output 2
12 NC
11 NC
10 Balance Control
9 Nc
8 Volume Control
7 GND
6 External reference
5 Filter
4 Internal reference
3 Output 1
2 Input 1
1 +B

2. Block Diagram


Input 1
Internal reference
External reference
Volume Control
Balance Control
Input 2
2
4
6
8
10
14
NC 9
NC 11
12 NC
Control
Regulator
3
1
5
7
13
Output 1
+B
Filter
GND
Output 2

■ XR1091DCP (IC432) : Display Filter

1. Terminal Layout

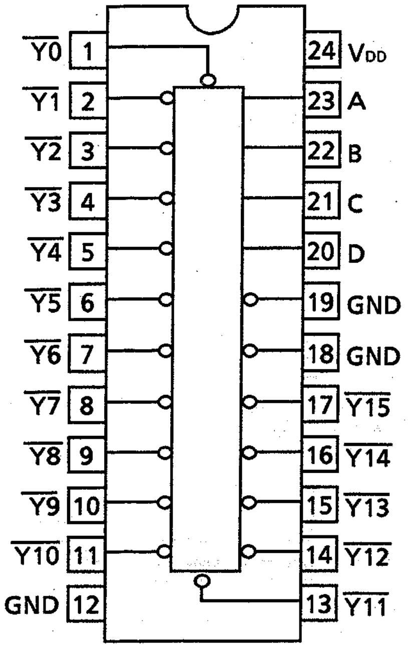

63 1
160 2
400 3
1k 4
25k 5
63k 6
16k 7
TOTAL 8
16 +B
15 CLK/2
14 CLK
13 CLK
12 GND
11 L IN
10 R IN
9 -B

2. Pin Functions

Pin No.	Symbol	Functions
1	63	Peak hold output of 63Hz band-pass filter
2	160	Peak hold output of 160Hz band-pass filter
3	400	Peak hold output of 400Hz band-pass filter
4	1k	Peak hold output of 1kHz band-pass filter
5	25k	Peak hold output of 25kHz band-pass filter
6	63k	Peak hold output of 63kHz band-pass filter
7	16k	Peak hold output of 16Hz band-pass filter
8	TOTAL	Total frequency output (peak hold)
9	-B	Power supply (- 6V)
10	R IN	Right channel input
11	L IN	Left channel input
12	GND	Ground
13	CLK	Connecting capacitor for clock
14	CLK	Connecting resistor to pin 13 for clock
15	CLK	Not used
16	+B	Power supply (+ 6V)

■ TC74HC154P (IC462) : Decorder

1. Terminal Layout


$\overline{Y0}$ 1
$\overline{Y1}$ 2
$\overline{Y2}$ 3
$\overline{Y3}$ 4
$\overline{Y4}$ 5
$\overline{Y5}$ 6
$\overline{Y6}$ 7
$\overline{Y7}$ 8
$\overline{Y8}$ 9
$\overline{Y9}$ 10
$\overline{Y10}$ 11
GND 12
24 V_{DD}
23 A
22 B
21 C
20 D
19 GND
18 GND
17 $\overline{Y15}$
16 $\overline{Y14}$
15 $\overline{Y13}$
14 $\overline{Y12}$
13 $\overline{Y11}$

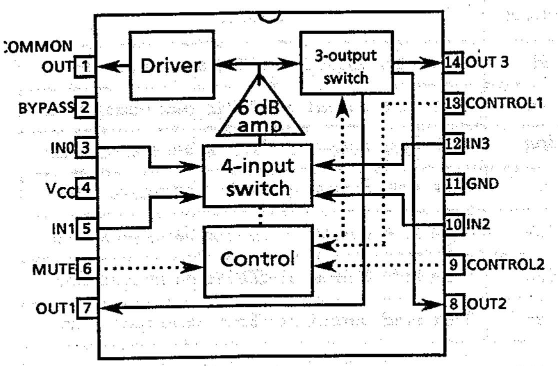
2. Function Table

Input						Output
G1	G2	D	C	B	A	
L	L	L	L	L	L	NC
L	L	L	L	L	H	NC
L	L	L	L	H	L	NC
L	L	L	L	H	H	NC
L	L	L	H	L	L	NC
L	L	L	H	L	H	$\overline{\text{11G}}$
L	L	L	H	H	L	$\overline{\text{10G}}$
L	L	L	H	H	H	$\overline{\text{9G}}$
L	L	H	L	L	L	$\overline{\text{8G}}$
L	L	H	L	L	H	$\overline{\text{7G}}$
L	L	H	L	H	L	$\overline{\text{6G}}$
L	L	H	L	H	H	$\overline{\text{5G}}$
L	L	H	H	L	L	$\overline{\text{4G}}$
L	L	H	H	L	H	$\overline{\text{3G}}$
L	L	H	H	H	L	$\overline{\text{2G}}$
L	L	H	H	H	H	$\overline{\text{1G}}$
×	H	×	×	×	×	—
H	×	×	×	×	×	—

× : Don't Care

■ LA7951 (IC474,475,483) : 4input-4output Video Switch with 6dB Video Amp.

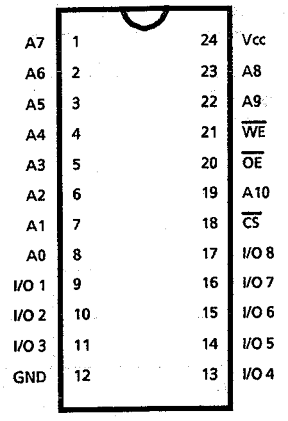
1. Terminal Layout & Block Diagram

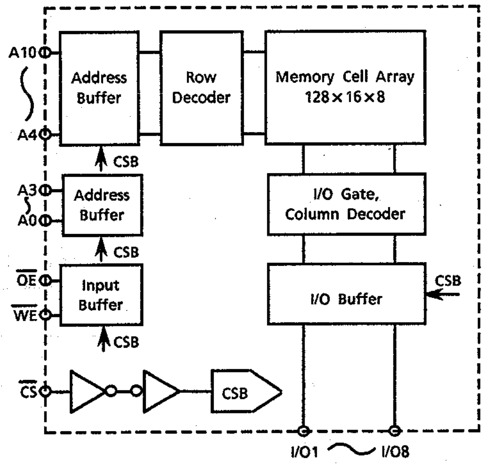

OMMON OUT 1
BYPASS 2
IN0 3
Vcc 4
IN1 5
MUTE 6
OUT1 7
14 OUT 3
13 CONTROL1
12 IN3
11 GND
10 IN2
9 CONTROL2
8 OUT2
Driver
3-output switch
6 dB amp
4-input switch
Control

2. Logic Value table

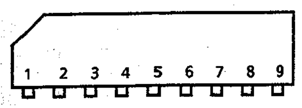
CONTROL			INPUT SIGNAL				OUTPUT SIGNAL			
MUTE (pin6)	1 (pin13)	2 (pin9)	0 (pin3)	1 (pin5)	2 (pin10)	3 (pin12)	COMMON (pin1)	1 (pin7)	2 (pin8)	3 (pin14)
L	-	-	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
H	L	L	ON	OFF	OFF	OFF	ON	ON	ON	ON
H	L	H	OFF	ON	OFF	OFF	ON	OFF	ON	ON
H	H	L	OFF	OFF	ON	OFF	ON	ON	OFF	ON
H	H	H	OFF	OFF	OFF	ON	ON	ON	ON	OFF

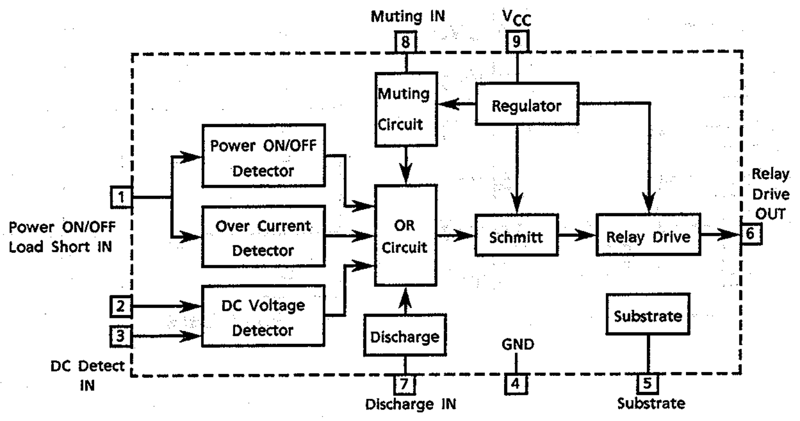
■ LC3517BS-15 (IC403): Static RAM


A7 1
A6 2
A5 3
A4 4
A3 5
A2 6
A1 7
A0 8
I/O 1 9
I/O 2 10
I/O 3 11
GND 12
24 Vcc
23 A8
22 A9
21 WE
20 OE
19 A10
18 CS
17 I/O 8
16 I/O 7
15 I/O 6
14 I/O 5
13 I/O 4


A10
A4
Address Buffer
Row Decoder
Memory Cell Array 128×16×8
CSB
A3
A0
Address Buffer
I/O Gate, Column Decoder
CSB
OE
WE
Input Buffer
I/O Buffer
CSB
CSB
CS
CSB
I/O1 ~ I/O8

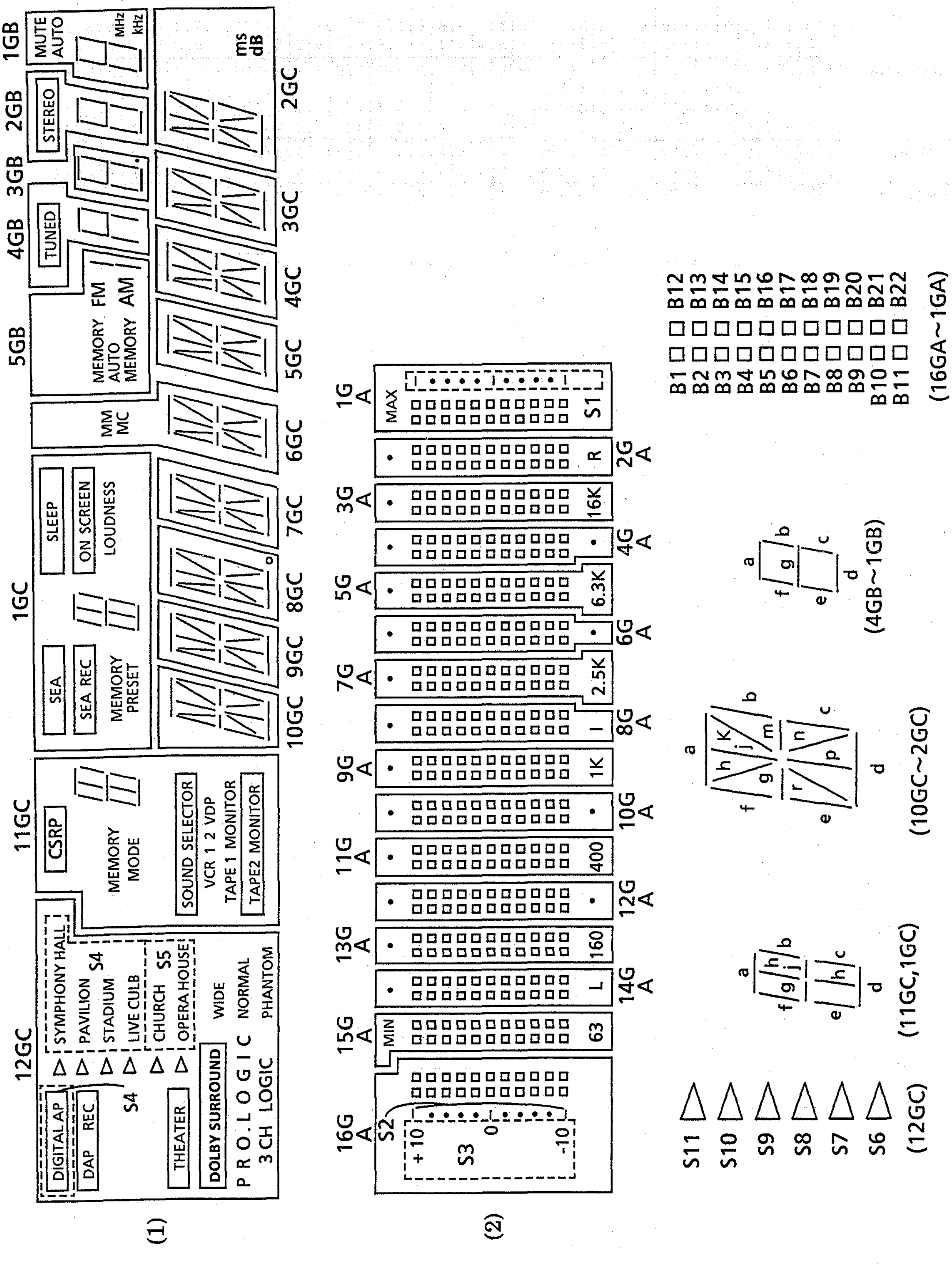
■ TA7317P (IC901) : PROTECTOR




Muting IN
8
VCC
9
Muting Circuit
Regulator
Power ON/OFF Detector
Over Current Detector
DC Voltage Detector
OR Circuit
Schmitt
Relay Drive
Discharge
Substrate
1
Power ON/OFF Load Short IN
2
3
DC Detect IN
7
Discharge IN
GND
4
5
Substrate
Relay Drive OUT
6

Internal Connection of FL Display

■ FL461 : ELU0001-126 Anode & Grid Assignment


1GB
2GB
3GB
4GB
5GB
1GC
11GC
12GC
2GC
3GC
4GC
5GC
6GC
7GC
8GC
9GC
10GC
MUTE
AUTO
MHz
kHz
ms
dB
STEREO
TUNED
MEMORY
AUTO
MEMORY
FM
AM
MM
MC
SLEEP
ON SCREEN
LOUDNESS
SEA
SEA REC
MEMORY
PRESET
CSRP
MEMORY
MODE
SOUND SELECTOR
VCR 1 2 VDP
TAPE1 MONITOR
TAPE2 MONITOR
DIGITAL AP
DAP
REC
S4
SYMPHONY HALL
PAVILION
STADIUM
LIVE CULB
S4
CHURCH
OPERA HOUSE
S5
THEATER
DOLBY SURROUND
WIDE
NORMAL
PHANTOM
P R O . L O G I C
3 CH LOGIC
(1)
1G A
2G A
3G A
4G A
5G A
6G A
7G A
8G A
9G A
10G A
11G A
12G A
13G A
14G A
15G A
16G A
MAX
S1
R
16K
6.3K
2.5K
I
1K
400
160
L
MIN
63
S2
S3
+10
0
-10
(2)
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
(16GA~1GA)
a
b
c
d
e
f
g
(4GB~1GB)
a
b
c
d
e
f
g
h
j
k
m
n
p
r
(10GC~2GC)
a
b
c
d
e
f
g
h
j
h
(11GC,1GC)
S11
S10
S9
S8
S7
S6
(12GC)

PIN CONNECTION

PIN NO	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64
CONNECTION	F2	F2	NP	NP	12GC	11GC	10GC	9GC	8GC	7GC	6GC	5GC	4GC	3GC	2GC	1GC	NP	NP	P36	P45	P44	P37	P35	P39	P43	P38	P34	P42	P40	P41	P33	P46	P47	P48	P32	P31	P30	P29	P28
PIN NO	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
CONNECTION	P27	P26	P25	5GB	4GB	3GB	2GB	1GB	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	DA	NP	NP	NP	NP	P12	P13	IC	NP	Fd	Fd	NP	IC	P14	P15	P16	P17	P18	P19	P20
PIN NO	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1															
CONNECTION	P21	P22	P23	P24	16GA	15GA	14GA	13GA	12GA	11GA	10GA	9GA	8GA	7GA	6GA	5GA	4GA	3GA	2GA	1GA	NP	NP	F1	F1															

NOTE
1) F1,F2 -----Filament
2) NP ---------No pin
3) NC ---------No connection
4) 1GA~12GA,1GB~5GB,1GC~12GC ---Grid
5) IC ----------Internal connection
6) DA --------Dummy Anode
7) Fd terminals are to be supplied through 24kΩ from Ec.

Anode Connection (A)

	16GA	15GA	14GA	13GA	12GA	11GA	10GA	9GA	8GA	7GA	6GA	5GA	4GA	3GA	2GA	1GA
P1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1
P2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2	B2
P3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3	B3
P4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4	B4
P5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5	B5
P6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6	B6
P7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7	B7
P8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8	B8
P9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9	B9
P10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10
P11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11	B11
P12	S3	MIN	o	o	o (上)	o	o (上)	o	o	o	o (上)	o	o (上)	o	o	**MAX**
S13	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12	B12
P14	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13	B13
S15	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14	B14
P16	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15	B15
P17	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16	B16
P18	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17	B17
P19	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18	B18
P20	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19	B19
P21	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20	B20
P22	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21	B21
P23	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22	B22
P24	S2	**63**	L	**160**	o (下)	**400**	o (下)	**1K**	**1**	**2.5K**	o (下)	**6.3K**	o (下)	**16K**	**R**	S1

Anode Connection (B)

	5GB	4GB	3GB	2GB	1GB
P25	—	TUNED	Dp	STEREO	**MUTE AUTO**
P26	**AUTO MEMORY (下)**	a	a	a	—
P27	—	b	b	b	**MHz**
P28	**MEMORY (上)**	c	c	c	**kHz**
P29	—	d	d	d	g
P30	FM	e	e	e	c,f
P31	AM	f	f	f	b,e
P32	b,c	g	g	g	a,d

Anode Connection (C)

	12GC	11GC	10GC	9GC	8GC	7GC	6GC	5GC	4GC	3GC	2GC	1GC
P33	S4	b,c	a	a	a	a	a	a	a	a	a	a
P34	DAP REC	d	b	b	b	b	b	b	b	b	b	b
P35	THEATER	e.f	c	c	c	c	c	c	c	c	c	c
P36	DOLBY SURROUND	g	d	d	d	d	d	d	d	d	d	d
P37	PRO -LOGIC	h	e	e	e	e	e	e	e	e	e	e
P38	**3 CH LOGIC**	j	f	f	f	f	f	f	f	f	f	f
P39	**WIDE**	**a MODE**	g	g	g	g	g	g	g	g	g	g
P40	**NORMAL**	CSRP	h	h	h	h	h	h	h	h	h	h
P41	**PHANTOM**	**MEMORY**	j	j	j	j	j	j	j	j	j	j
P42	S5	SOUND SELECTOR	k	k	k	k	k	k	k	k	k	SEA
P43	S6	**VCR**	m	m	m	m	m	m	m	m	m	SEA REC
P44	S7	**1**	n	n	n	n	n	n	n	n	n	**MEMORY**
P45	S8	**2**	p	p	p	p	p	p	p	p	p	**PRESET**
P46	S9	**VDP**	r	r	r	r	r	r	r	r	r	SLEEP
P47	S10	**TAPE1 MONITOR**	—	—	Dp	—	MM	—	—	—	**ms**	ON SCREEN
P48	S11	TAPE 2 MONITER	—	—	—	—	MC	—	—	—	**db**	**LOUDNESS**

Disassembly Procedures

■ Removing the top cover

1. Remove the 4 screws on both sides.
2. Remove the 2 screws located on the top of rear panel.
3. Slightly open both sides of the top cover, to the left and right, and raise the rear side. Then slowly lift it up and straight, backward.

■ Removing the bottom cover (Fig 3)

1. Remove 18 screws Ⓐ,Ⓙ fixing the bottom cover.

■ Removing the front panel (Fig 1,Fig 3)

1. Remove the top cover.
2. Remove the 3 plastic rivets Ⓒ on the upper part of the front panel and 6 screws Ⓑ from the lower part.
3. Remove the front panel.

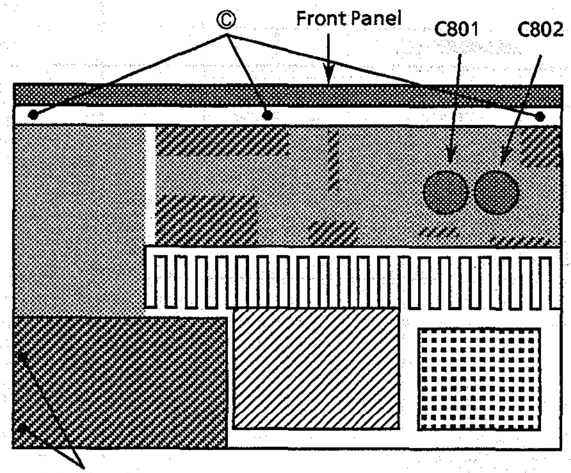


Fig 1. Top View

■ Removing the System & FL control PCB (ENB-137-2) (Fig 4)

1. Remove the top cover.
2. Remove the front panel.
3. Remove the 2 screws Ⓓ.
4. Disconnect the connectors and flat wires. (PA401,PA402,PA462,PB442,PB411,PB412,PB413)

■ Removing the Tuner PCB (ENA-089-1) (Fig 1,Fig 2)

1. Remove the 4 screws Ⓔ on the rear panel and also remove 2 screws Ⓕ fixing the circuit board.
2. Pull off the connectors. (P101,P103)

■Removing the Power supply PCB (END-080-1)

1. Remove the 3 screws and the 1 plastic rivets fixing the circuit board in the chassis.
2. Pull off the connectors. (PA834,PA835,PA653)
3. Unsolder the wires.

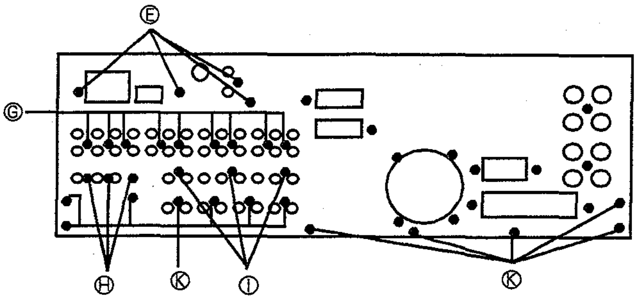


Fig 2. Rear View

Removing the Source select & SEA PCB (ENC-090-1) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1) and the Power supply PCB (END-080-1).
2. Remove the 9 screws Ⓖ on the rear panel.
3. Remove the 3 screws fixing the circuit board in the chassis.
4. Pull off the connectors. (PA245,PA302,PA303,PA304,PA305,PA651)
5. Remove the 2 blackets holding the PCB.

Removing the Volume control PCB (ENB-137-1) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1) and the Source select & SEA PCB (ENC-090-1).
2. Remove the 3 screws Ⓗ on the rear panel.
3. Remove the 3 screws fixing the circuit board in the chassis.
4. Pull off the connectors. (PA241,PA243,PA246,PA403,PA652,PA701,PA702,PA834)

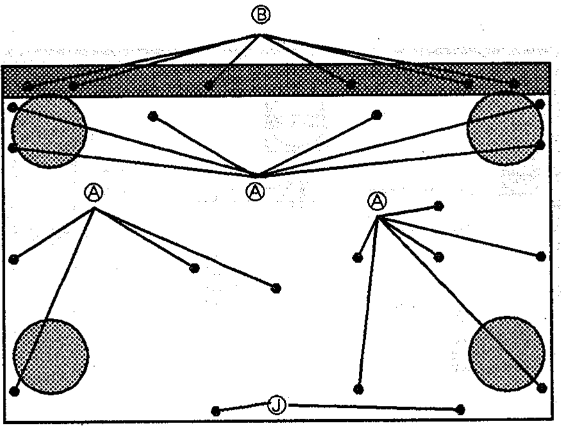


Fig 3. Bottom Cover

Removing the Video selector PCB (ENP-039-2) (Fig 2)

1. Remove the Tuner PCB (ENA-089-1) . the Source select & SEA PCB (ENC-090-1), and the Power supply PCB (END-080-1).
2. Remove the 3 screws Ⓘ on the rear panel.
3. Remove the 1 screw fixing the circuit board.
4. Pull off the connectors. (PA657,PA654)

Removing the Shield Blacket fixing Volume control PCB(ENB-137-1) (Fig 2,Fig 3)

1. Remove the 33 screws Ⓔ,Ⓖ,Ⓗ,Ⓘ,Ⓚ,Ⓙ.
2. Remove the rear panel.
3. Remove the PCB. (ENB-137-2,ENA-089-1,ENC-090-1,ENB-137-1,ENP-039-2)
4. Remove the Shield Blacket.

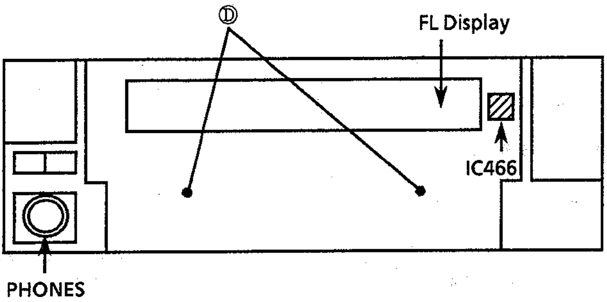
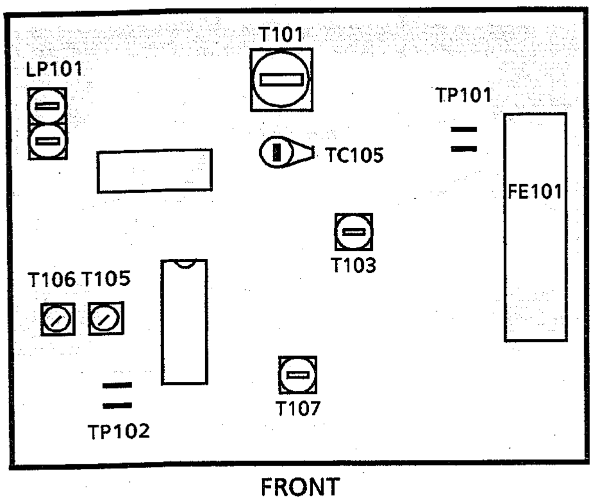


Fig 4. Front P.C. Board(ENB-137-2)

FM/AM Tuner Alignment Procedures



1. FM section

■ FM tuning voltage

(1) Set the frequency display to "108.0MHz".
(2) Confirm that the FM inter-station noise is received.
(3) Confirm that the voltage of test point "TP101" is 8.0 ± 2.0V.
(4) Set the frequency display to "87.5MHz" and confirm the voltage of test point "TP101" is 1.6 ± 1.0V.

■ FM detector coil : T105, T106

(1) Connect a digital voltmeter to test point "TP102", and receive to "100.1MHz" signal with SSG ATT 70dB.
(2) Adjust T105 so that the digital voltmeter becomes 0 ± 1.5mV.
(3) At the same time, Adjust T106 so that the monaural distortion of the output becomes minimised.

2. AM section

■ AM oscillator : T103

(1) Set the frequency display to 522kHz and confirm the voltage of test point TP101 is 0.9V ± 0.2V.
(2) Set the frequency display to 1710kHz and confirm the voltage of test point TP101 is 8.0 ± 0.8V.
(3) If its voltage exceeds the allowance, adjust T103 to obtain the voltage.

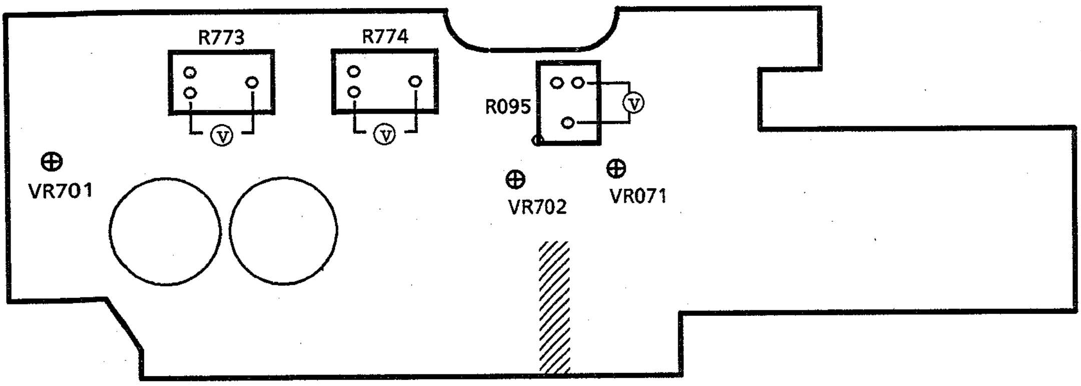
■ AM antenna coil : T101

(1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
(2) Adjust T101 to obtain the best receiving sensitivity at 600kHz or 603kHz.

■ AM antenna trimmer : TC105

(1) Adjust TC105 to obtain the best receiving sensitivity on 1400kHz or 1404kHz.

Power Amplifier Adjustment Procedures



FRONT

■ Idling Current (Main)

(1) Turn VR701 and VR702 fully counterclockwise before the power switch on.
(2) Warm up at least 5 minutes before adjustment.
(3) Must keep the heatsink to prevent overheating before adjustment.
(4) Set the volume control to minimum during this adjustment.
(5) Connect a DC voltmeter to R773 resistor's leads for left channel, or to R774 for right channel.
(6) Adjust VR701 for left channel, or VR702 for right channel, so that the DC voltmeter becomes 2mV ~ 7mV

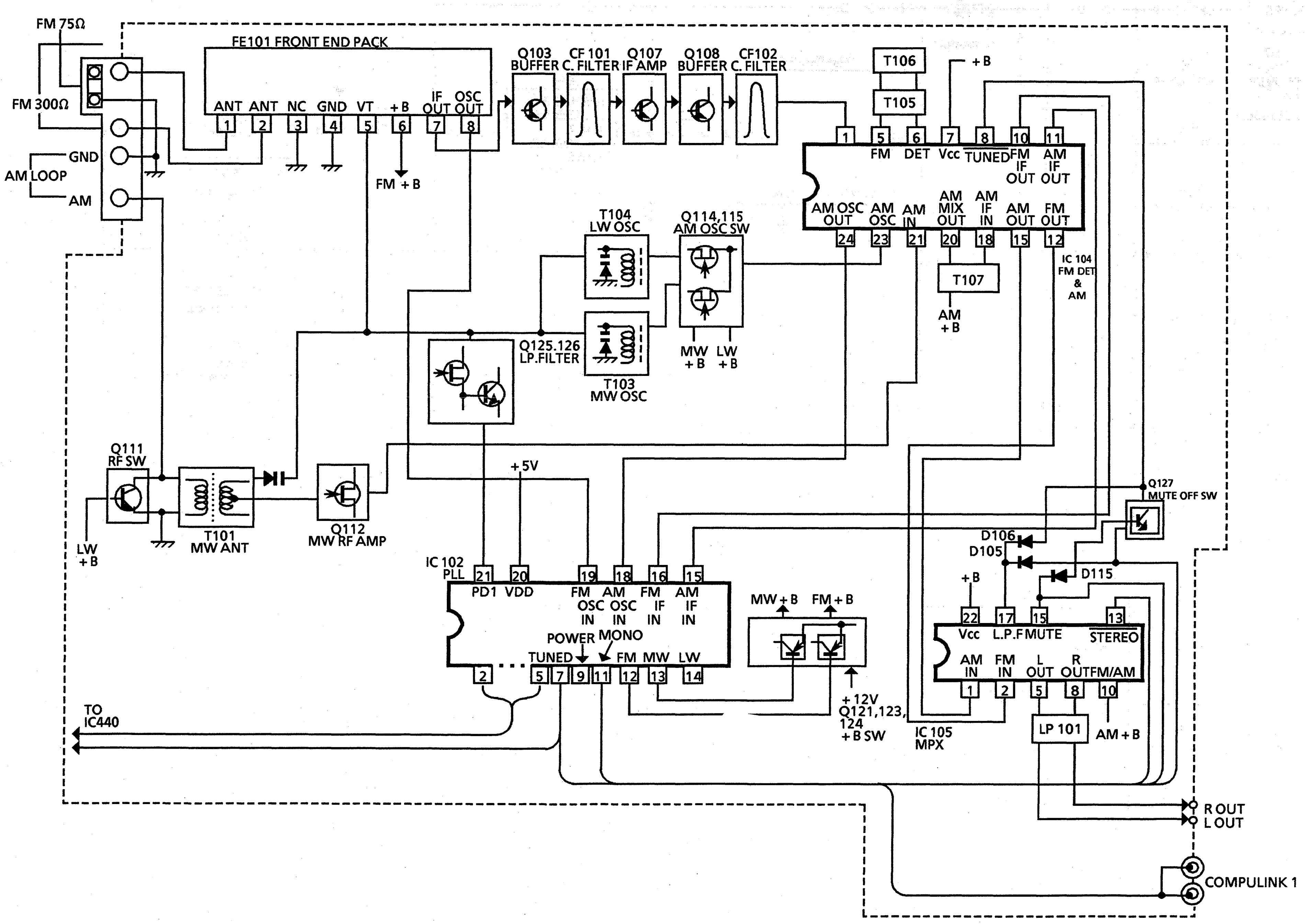
■ Idling Current (Center)

(1) Turn VR071 fully counterclockwise before the power switch on.
(2) Warm up at least 5 minutes before adjustment.
(3) Must keep the heatsink to prevent overheating before adjustment.
(4) Set the volume control to minimum during this adjustment.
(5) Connect a DC voltmeter to R095 resistor's leads for Center channel.
(6) Adjust VR071 for Center channel, so that the DC voltmeter becomes 2mV ~ 7mV

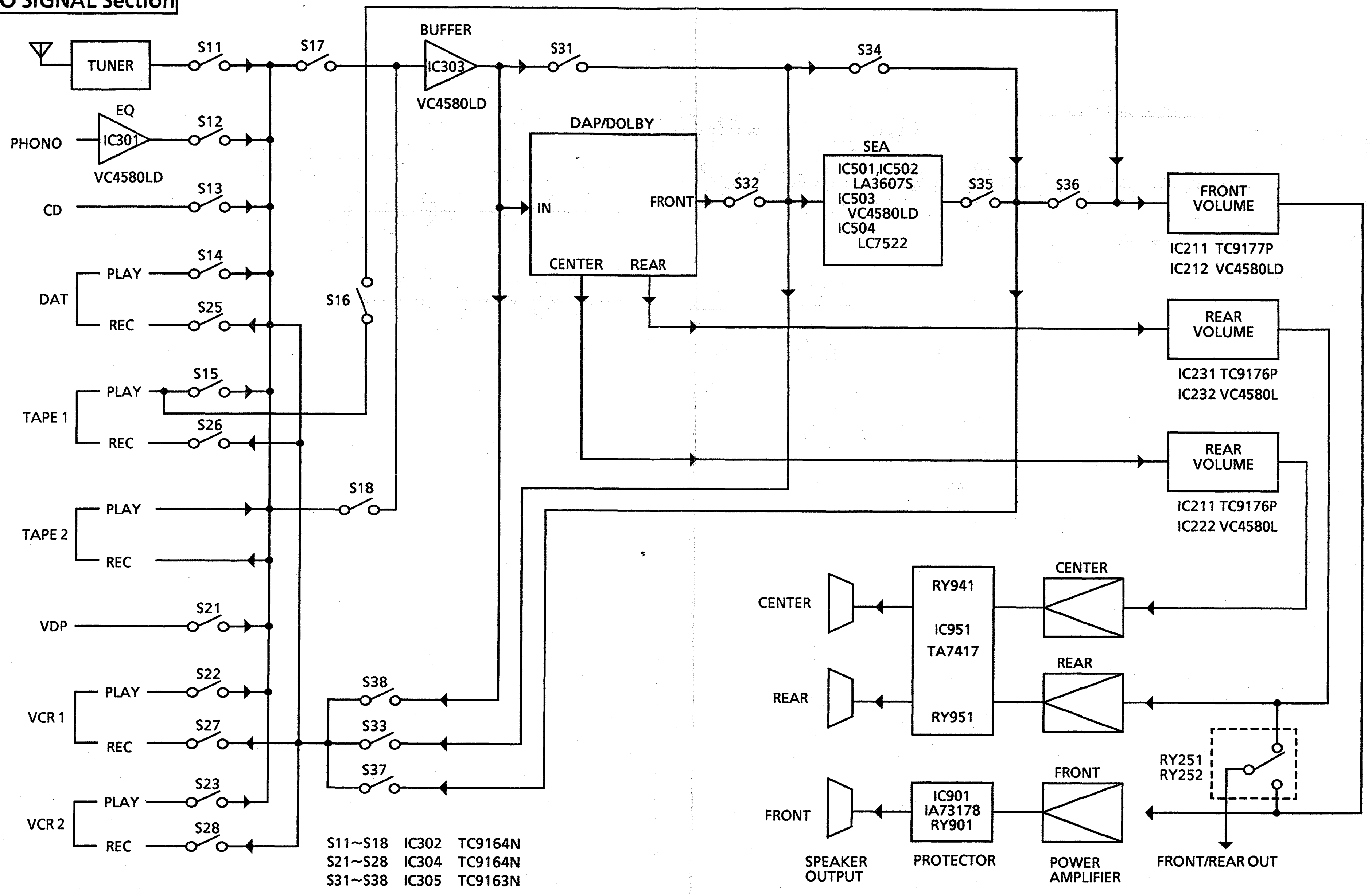
— MEMO —

Block Diagrams

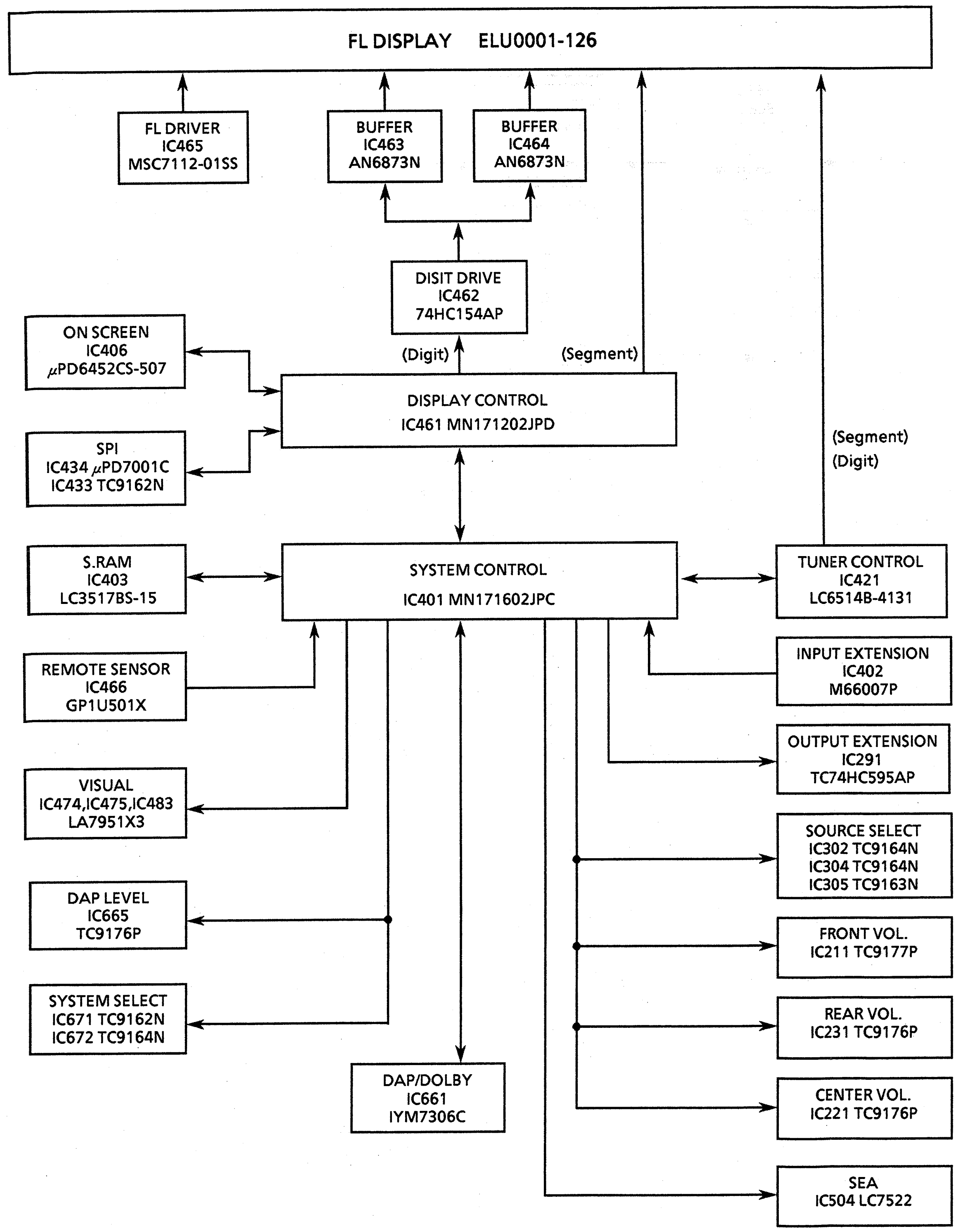
Tuner Section


FM 75Ω
FM 300Ω
GND
AM LOOP
AM
FE101 FRONT END PACK
ANT ANT NC GND VT +B IF OUT OSC OUT
1 2 3 4 5 6 7 8
FM +B
Q103 BUFFER
CF 101 C. FILTER
Q107 IF AMP
Q108 BUFFER
CF102 C. FILTER
T106
T105
+B
1 5 6 7 8 10 11
FM DET Vcc TUNED FM IF OUT AM IF OUT
AM OSC OUT AM OSC AM IN AM MIX OUT AM IF IN AM OUT FM OUT
24 23 21 20 18 15 12
IC 104 FM DET & AM
T107
AM +B
T104 LW OSC
Q114,115 AM OSC SW
T103 MW OSC
Q125.126 LP.FILTER
MW +B
LW +B
Q111 RF SW
LW +B
T101 MW ANT
Q112 MW RF AMP
+5V
Q127 MUTE OFF SW
D106
D105
D115
IC 102 PLL
21 20 19 18 16 15
PD1 VDD FM OSC IN AM OSC IN FM IF IN AM IF IN
POWER MONO
TUNED FM MW LW
2 5 7 9 11 12 13 14
MW+B FM+B
+12V
Q121,123, 124 +B SW
TO IC440
+B
22 17 15 13
Vcc L.P.F MUTE STEREO
AM IN FM IN L OUT R OUT FM/AM
1 2 5 8 10
IC 105 MPX
LP 101
AM+B
R OUT
L OUT
COMPULINK 1

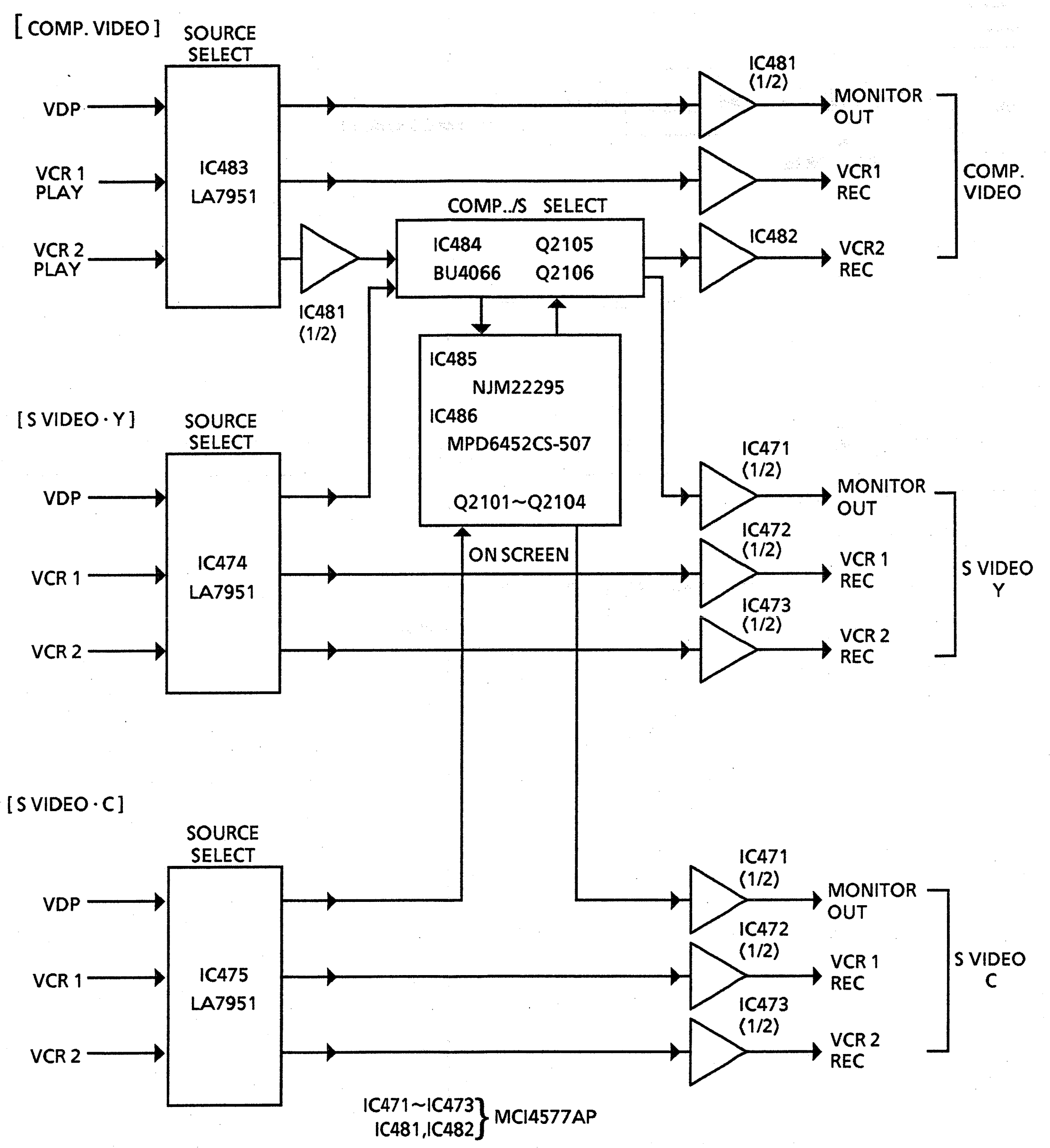
AUDIO SIGNAL Section


TUNER
S11
S17
BUFFER
IC303
VC4580LD
S31
S34
EQ
PHONO
IC301
VC4580LD
S12
DAP/DOLBY
IN
FRONT
CENTER
REAR
S32
SEA
IC501,IC502
LA3607S
IC503
VC4580LD
IC504
LC7522
S35
S36
FRONT VOLUME
IC211 TC9177P
IC212 VC4580LD
CD
S13
DAT
PLAY
S14
REC
S25
S16
REAR VOLUME
IC231 TC9176P
IC232 VC4580L
TAPE 1
PLAY
S15
REC
S26
REAR VOLUME
IC211 TC9176P
IC222 VC4580L
TAPE 2
PLAY
REC
S18
VDP
S21
VCR 1
PLAY
S22
REC
S27
VCR 2
PLAY
S23
REC
S28
S38
S33
S37
S11~S18 IC302 TC9164N
S21~S28 IC304 TC9164N
S31~S38 IC305 TC9163N
CENTER
RY941
IC951
TA7417
RY951
CENTER
REAR
REAR
FRONT
IC901
IA73178
RY901
FRONT
RY251
RY252
SPEAKER OUTPUT
PROTECTOR
POWER AMPLIFIER
FRONT/REAR OUT

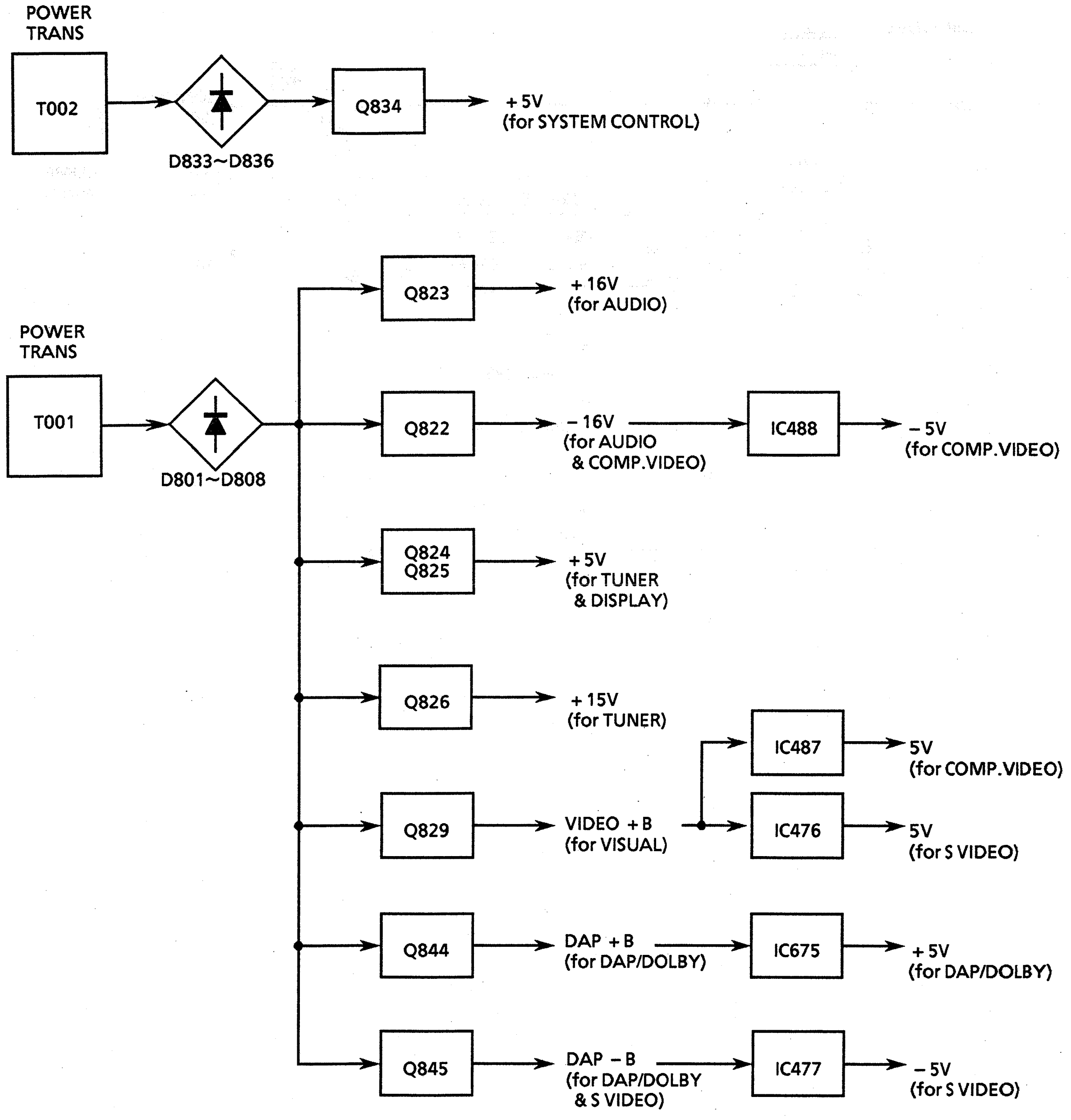
CONTROL Section


FL DISPLAY ELU0001-126
FL DRIVER IC465 MSC7112-01SS
BUFFER IC463 AN6873N
BUFFER IC464 AN6873N
DISIT DRIVE IC462 74HC154AP
(Digit)
(Segment)
ON SCREEN IC406 μPD6452CS-507
SPI IC434 μPD7001C IC433 TC9162N
DISPLAY CONTROL IC461 MN171202JPD
(Segment)
(Digit)
S.RAM IC403 LC3517BS-15
SYSTEM CONTROL IC401 MN171602JPC
TUNER CONTROL IC421 LC6514B-4131
REMOTE SENSOR IC466 GP1U501X
INPUT EXTENSION IC402 M66007P
OUTPUT EXTENSION IC291 TC74HC595AP
VISUAL IC474,IC475,IC483 LA7951X3
SOURCE SELECT IC302 TC9164N IC304 TC9164N IC305 TC9163N
DAP LEVEL IC665 TC9176P
FRONT VOL. IC211 TC9177P
SYSTEM SELECT IC671 TC9162N IC672 TC9164N
REAR VOL. IC231 TC9176P
DAP/DOLBY IC661 IYM7306C
CENTER VOL. IC221 TC9176P
SEA IC504 LC7522

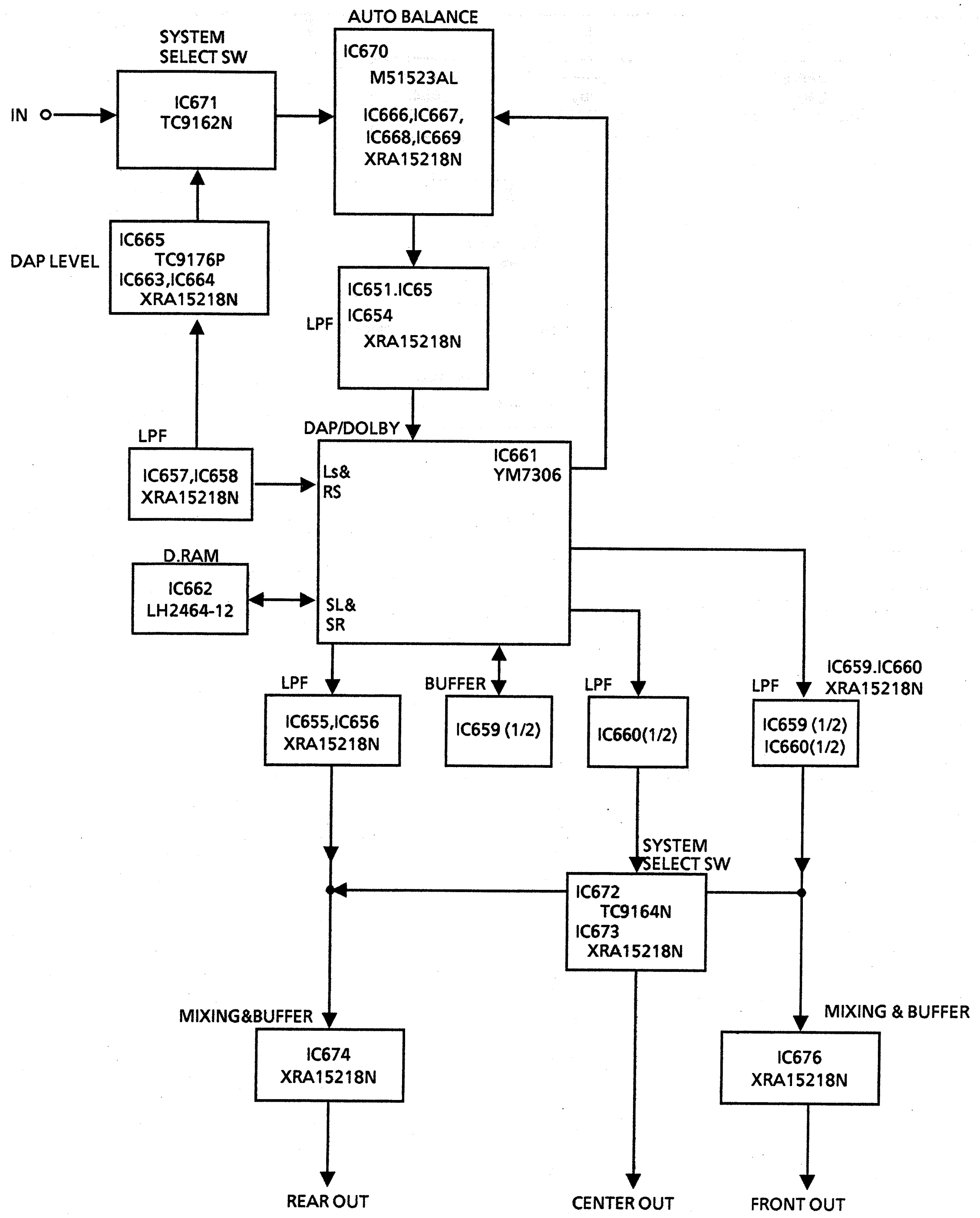
VISUAL SIGNAL Section


[COMP. VIDEO]
SOURCE SELECT
VDP
VCR 1 PLAY
VCR 2 PLAY
IC483 LA7951
IC481 (1/2)
MONITOR OUT
VCR1 REC
COMP. VIDEO
COMP../S SELECT
IC484 BU4066
Q2105 Q2106
IC482
VCR2 REC
IC481 (1/2)
IC485 NJM22295
IC486 MPD6452CS-507
Q2101~Q2104
ON SCREEN
[S VIDEO · Y]
SOURCE SELECT
VDP
VCR 1
VCR 2
IC474 LA7951
IC471 (1/2)
MONITOR OUT
IC472 (1/2)
VCR 1 REC
IC473 (1/2)
VCR 2 REC
S VIDEO Y
[S VIDEO · C]
SOURCE SELECT
VDP
VCR 1
VCR 2
IC475 LA7951
IC471 (1/2)
MONITOR OUT
IC472 (1/2)
VCR 1 REC
IC473 (1/2)
VCR 2 REC
S VIDEO C
IC471~IC473 } MCI4577AP
IC481,IC482

DC POWER SUPPLY Section

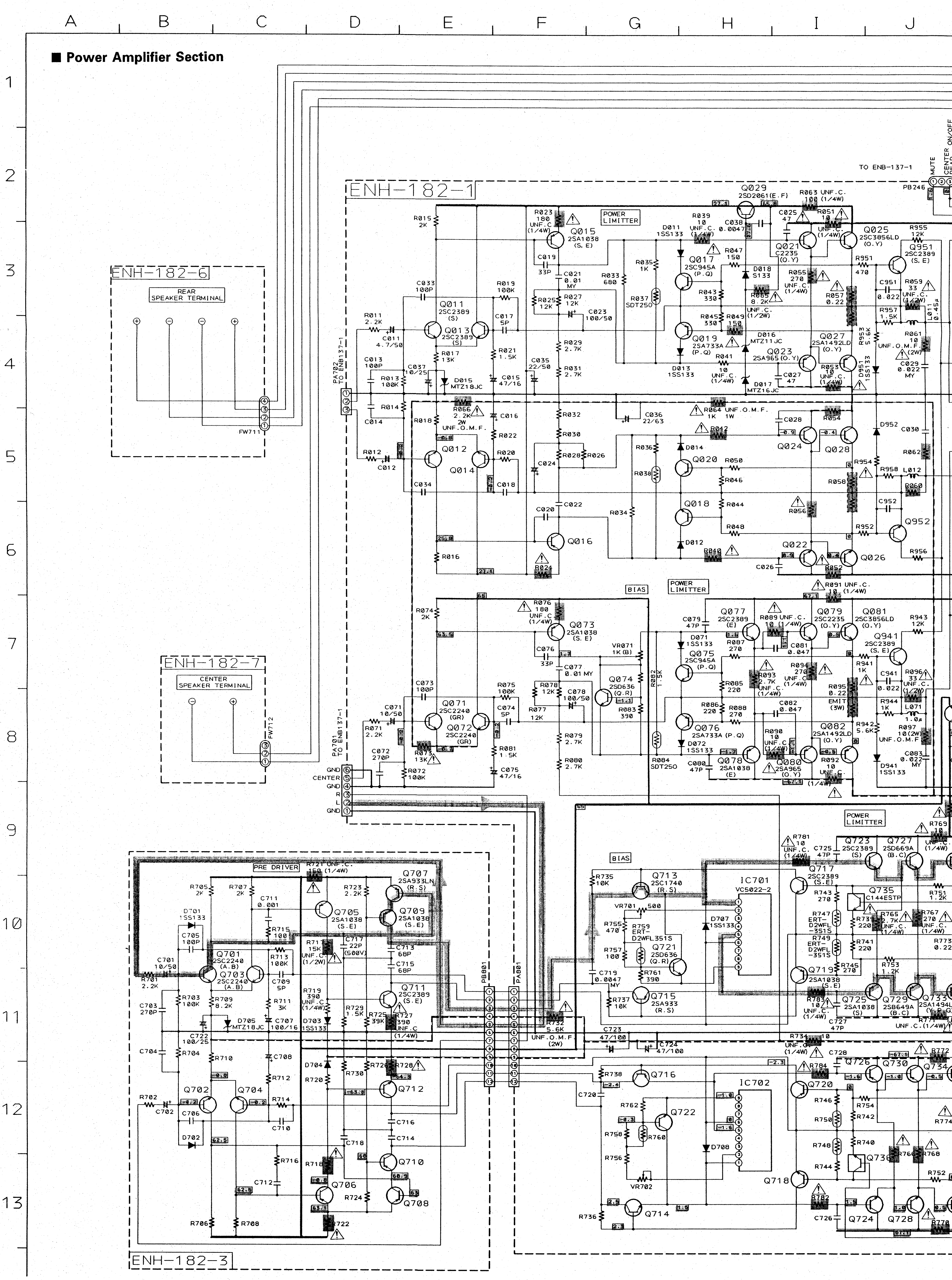

POWER TRANS
T002
D833~D836
Q834
+5V (for SYSTEM CONTROL)
POWER TRANS
T001
D801~D808
Q823
+16V (for AUDIO)
Q822
−16V (for AUDIO & COMP.VIDEO)
IC488
−5V (for COMP.VIDEO)
Q824 Q825
+5V (for TUNER & DISPLAY)
Q826
+15V (for TUNER)
IC487
5V (for COMP.VIDEO)
Q829
VIDEO +B (for VISUAL)
IC476
5V (for S VIDEO)
Q844
DAP +B (for DAP/DOLBY)
IC675
+5V (for DAP/DOLBY)
Q845
DAP −B (for DAP/DOLBY & S VIDEO)
IC477
−5V (for S VIDEO)

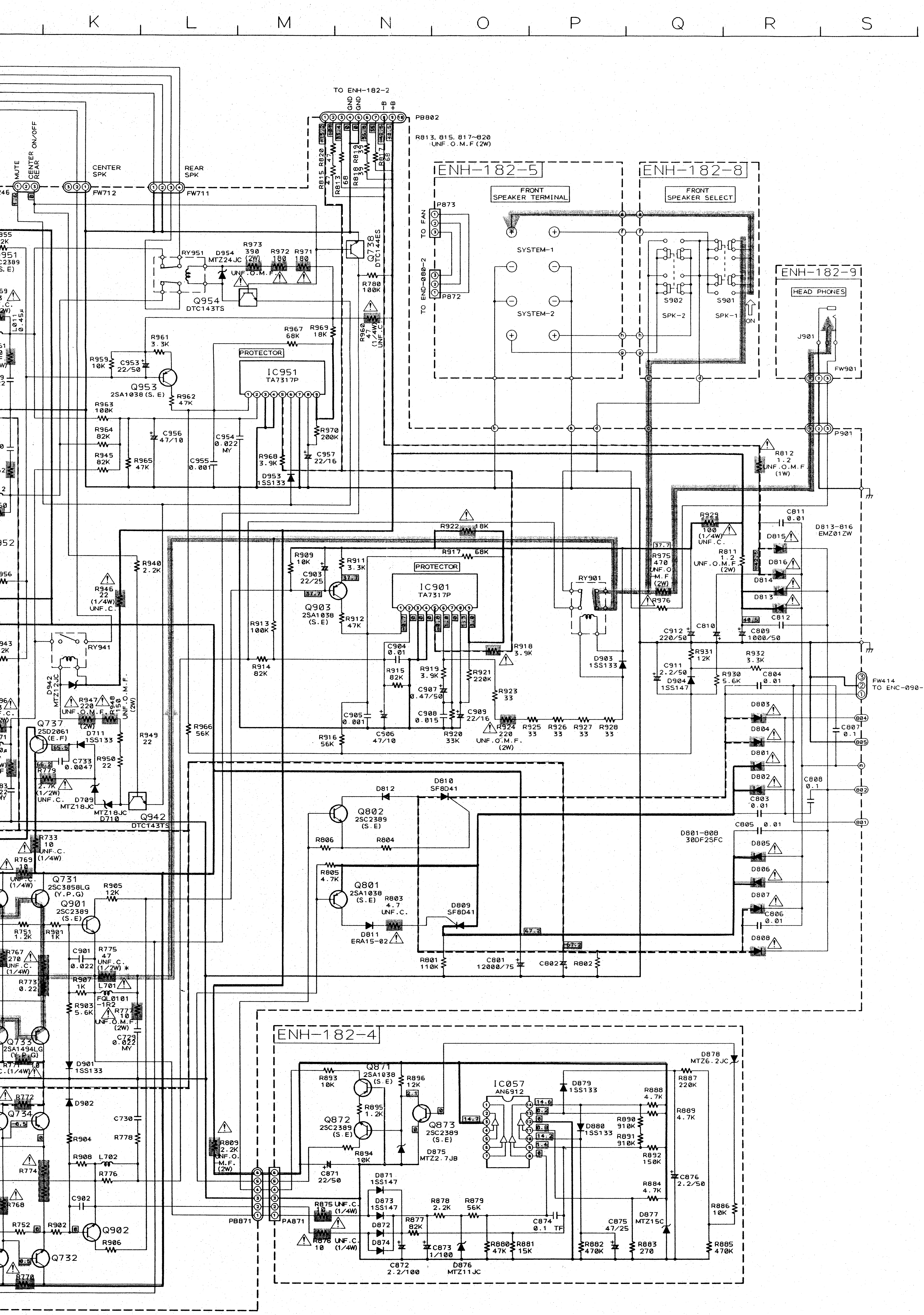
DAP/DOLBY Section


IN
SYSTEM SELECT SW
IC671 TC9162N
AUTO BALANCE
IC670 M51523AL
IC666,IC667, IC668,IC669 XRA15218N
DAP LEVEL
IC665 TC9176P
IC663,IC664 XRA15218N
LPF
IC651.IC65 IC654 XRA15218N
LPF
IC657,IC658 XRA15218N
DAP/DOLBY
IC661 YM7306
Ls& RS
SL& SR
D.RAM
IC662 LH2464-12
LPF
IC655,IC656 XRA15218N
BUFFER
IC659 (1/2)
LPF
IC660(1/2)
LPF
IC659.IC660 XRA15218N
IC659 (1/2) IC660(1/2)
SYSTEM SELECT SW
IC672 TC9164N
IC673 XRA15218N
MIXING&BUFFER
IC674 XRA15218N
MIXING & BUFFER
IC676 XRA15218N
REAR OUT
CENTER OUT
FRONT OUT

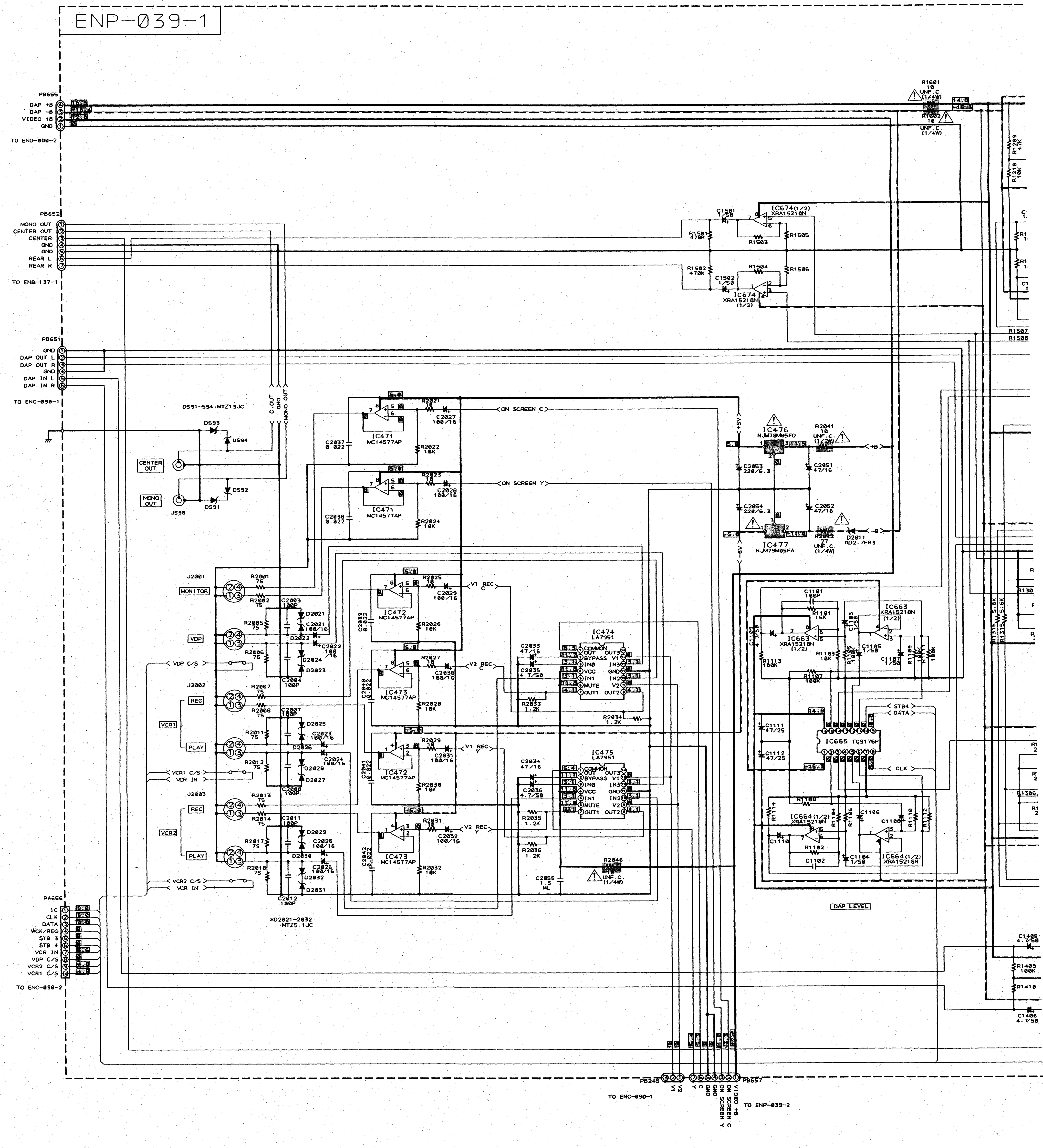
Schematic Diagrams

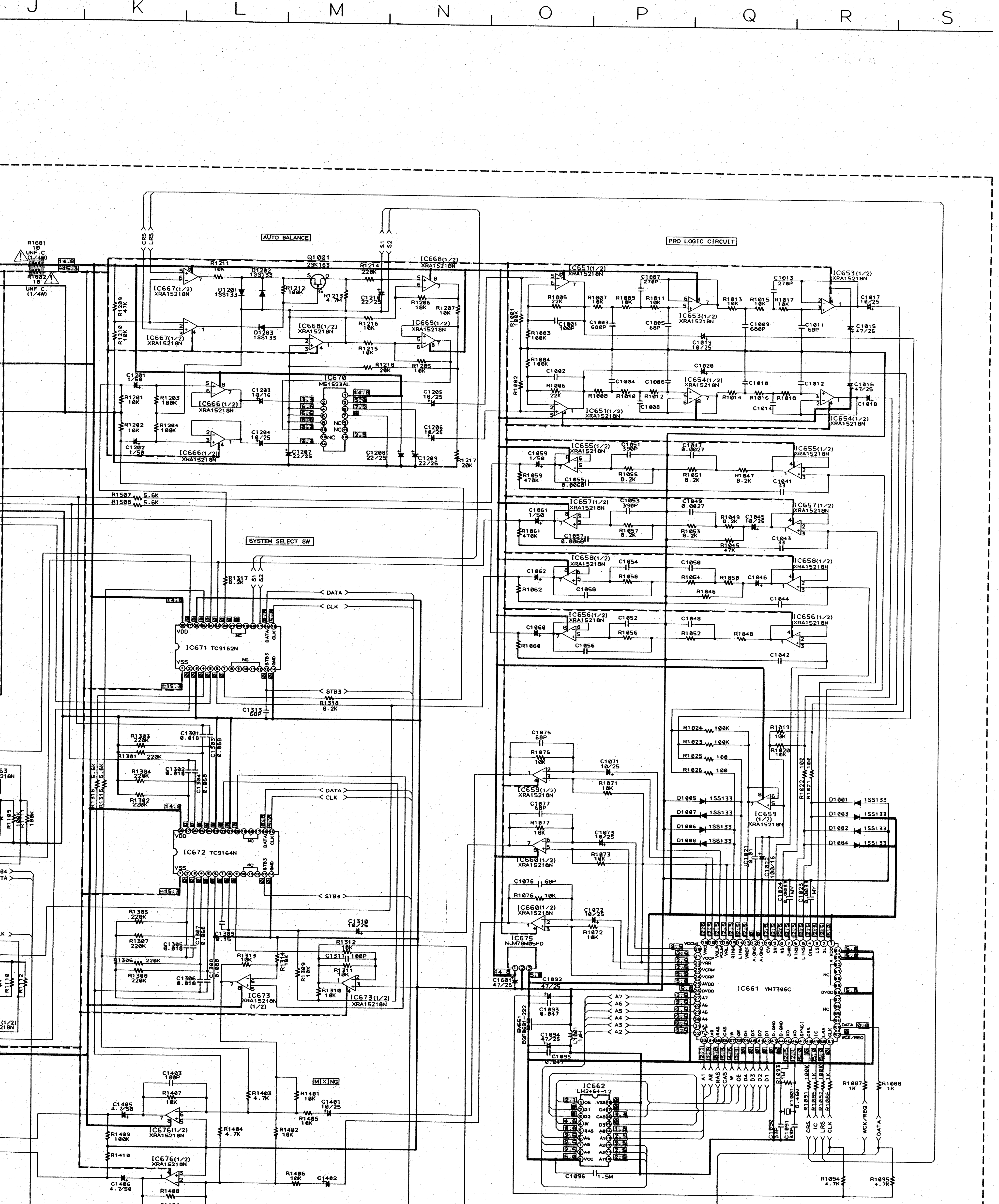
■ Power Amplifier Section


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
ENH-182-1
ENH-182-6
REAR SPEAKER TERMINAL
FW711
ENH-182-7
CENTER SPEAKER TERMINAL
FW712
ENH-182-3
PRE DRIVER
TO ENB-137-1
PB246
MUTE
CENTER ON/OFF
PA702 TO ENB137-1
PA701 TO ENB137-1
GND
CENTER
GND
R
L
GND
PB801
PA801
POWER LIMITTER
BIAS
IC701 VC5022-2
IC702
Q029 2SD2061(E.F)
Q015 2SA1038 (S.E)
Q017 2SC945A (P.Q)
Q019 2SA733A (P.Q)
Q021 2SC2235 (O.Y)
Q023 2SA965 (O.Y)
Q025 2SC3856LD (O.Y)
Q027 2SA1492LD (O.Y)
Q951 2SC2389 (S.E)
Q011 2SC2389 (S)
Q013 2SC2389 (S)
Q012
Q014
Q016
Q018
Q020
Q022
Q024
Q026
Q028
Q952
Q073 2SA1038 (S.E)
Q074 2SD636 (Q.R)
Q071 2SC2240 (GR)
Q072 2SC2240 (GR)
Q075 2SC945A (P.Q)
Q076 2SA733A (P.Q)
Q077 2SC2389 (E)
Q078 2SA1038 (E)
Q079 2SC2235 (O.Y)
Q080 2SA965 (O.Y)
Q081 2SC3856LD (O.Y)
Q082 2SA1492LD (O.Y)
Q941 2SC2389 (S.E)
Q701 2SC2240 (A.B)
Q703 2SC2240 (A.B)
Q702
Q704
Q705 2SA1038 (S.E)
Q706
Q707 2SA933LN (R.S)
Q708
Q709 2SA1038 (S.E)
Q710
Q711 2SC2389 (S.E)
Q712
Q713 2SC1740 (R.S)
Q714
Q715 2SA933 (R.S)
Q716
Q717 2SC2389 (S.E)
Q718
Q719 2SA1038 (S.E)
Q720
Q721 2SD636 (Q.R)
Q722
Q723 2SC2389 (S)
Q724
Q725 2SA1038 (S)
Q726
Q727 2SD669A (B.C)
Q728
Q729 2SB649A (B.C)
Q730
Q735 C144ESTP
Q736
D011 1SS133
D013 1SS133
D015 MTZ18JC
D016 MTZ11JC
D017 MTZ16JC
D018 S133
D071 1SS133
D072 1SS133
D701 1SS133
D702
D703 1SS133
D704
D705 MTZ18JC
D707 1SS133
D708
D941 1SS133
D951 1SS133
D952
VR071 1K (B)
VR701 500
VR702
R037 SDT250
R084 SDT250
UNF.C.
UNF.O.M.F.


K
L
M
N
O
P
Q
R
S
TO ENH-182-2
GND
GND
-B
+B
PB802
R813, 815, 817~820
UNF.O.M.F(2W)
MUTE
CENTER
REAR
CENTER ON/OFF
CENTER SPK
REAR SPK
FW712
FW711
ENH-182-5
FRONT SPEAKER TERMINAL
ENH-182-8
FRONT SPEAKER SELECT
TO FAN
P873
TO END-080-2
P872
SYSTEM-1
SYSTEM-2
S902
S901
SPK-2
SPK-1
ON
ENH-182-9
HEAD PHONES
J901
FW901
P901
RY951
D954 MTZ24JC
R973 390 (2W)
R972 180
R971 180
UNF.O.M.F
Q954 DTC143TS
Q738 DTC144ES
R780 100K
R960 47 (1/4W) UNF.C.
R967 68K
R969 18K
R961 3.3K
R959 10K
C953 22/50
Q953 2SA1038(S.E)
R962 47K
PROTECTOR
IC951 TA7317P
R963 100K
R964 82K
R945 82K
R965 47K
C956 47/10
C954 0.022 MY
C955 0.001
R968 3.9K
D953 1SS133
C957 22/16
R970 200K
R812 1.2 UNF.O.M.F (1W)
R922 18K
R917 68K
R909 10K
C903 22/25
R911 3.3K
Q903 2SA1038 (S.E)
R912 47K
IC901 TA7317P
R913 100K
R914 82K
C904 0.01
R915 82K
R919 3.9K
R921 220K
C907 0.47/50
C905 0.001
C906 47/10
C908 0.015
C909 22/16
R916 56K
R920 33K
R918 3.9K
R923 33
R924 220 UNF.O.M.F. (2W)
R925 33
R926 33
R927 33
R928 33
RY901
D903 1SS133
R975 470 UNF.O.M.F. (2W)
R976
R929 100 (1/4W) UNF.C.
R811 1.2 UNF.O.M.F. (2W)
C811 0.01
D813-816 EMZ01ZW
D815
D816
D814
D813
C812
C912 220/50
C810
C809 1000/50
R931 12K
R932 3.3K
C911 2.2/50
D904 1SS147
R930 5.6K
C804 0.01
FW414 TO ENC-090-3
D803
D804
D801
D802
C807 0.1
C808 0.1
C803 0.01
C805 0.01
D801-808 30DF2SFC
D805
D806
D807
C806 0.01
D808
R940 2.2K
R946 22 (1/4W) UNF.C.
RY941
D942 MTZ12JC
R947 220 UNF.O.M.F. (2W)
R948 150 UNF.O.M.F. (2W)
Q737 2SD2061 (E.F)
D711 1SS133
C733 0.0047
R949 22
R950 22
R779 2.7K (1/2W) UNF.C.
D709 MTZ18JC
D710 MTZ18JC
Q942 DTC143TS
R966 56K
R733 10 UNF.C. (1/4W)
R769 10 UNF.C. (1/4W)
Q731 2SC3858LG (Y.P.G)
Q901 2SC2389 (S.E)
R905 12K
R751 1.2K
R901 1K
R767 270 UNF.C. (1/4W)
C901 0.022
R775 47 UNF.C. (1/2W)
R773 0.22
R907 1K
L701 FQL0101-1R2
R903 5.6K
R777 10 UNF.O.M.F. (2W)
C723 0.022 MY
Q733 2SA1494LG (Y.P.G)
D901 1SS133
D902
R772
Q734
C730
R904
R778
R908
L702
R774
R776
R768
C902
R752
R902
Q902
R906
Q732
R770
D812
D810 SF8D41
Q802 2SC2389 (S.E)
R806
R804
R805 4.7K
Q801 2SA1038 (S.E)
R803 4.7 UNF.C.
D809 SF8D41
D811 ERA15-02
R801 110K
C801 12000/75
C802
R802
R809 2.2K UNF.O.M.F. (2W)
PB871
PA871
ENH-182-4
Q871 2SA1038 (S.E)
R893 10K
R896 12K
R895 1.2K
Q872 2SC2389 (S.E)
Q873 2SC2389 (S.E)
R894 10K
D875 MTZ2.7JB
C871 22/50
D871 1SS147
D873 1SS147
D872
D874
R875 10 UNF.C. (1/4W)
R876 10 UNF.C. (1/4W)
R877 82K
R878 2.2K
R879 56K
C872 2.2/100
C873 1/100
D876 MTZ11JC
R880 47K
R881 15K
C874 0.1 TF
IC057 AN6912
D879 1SS133
D880 1SS133
R888 4.7K
R890 910K
R891 910K
R892 150K
R887 220K
R889 4.7K
D878 MTZ6.2JC
C876 2.2/50
R884 4.7K
R886 10K
C875 47/25
D877 MTZ15C
R882 470K
R883 270
R885 470K

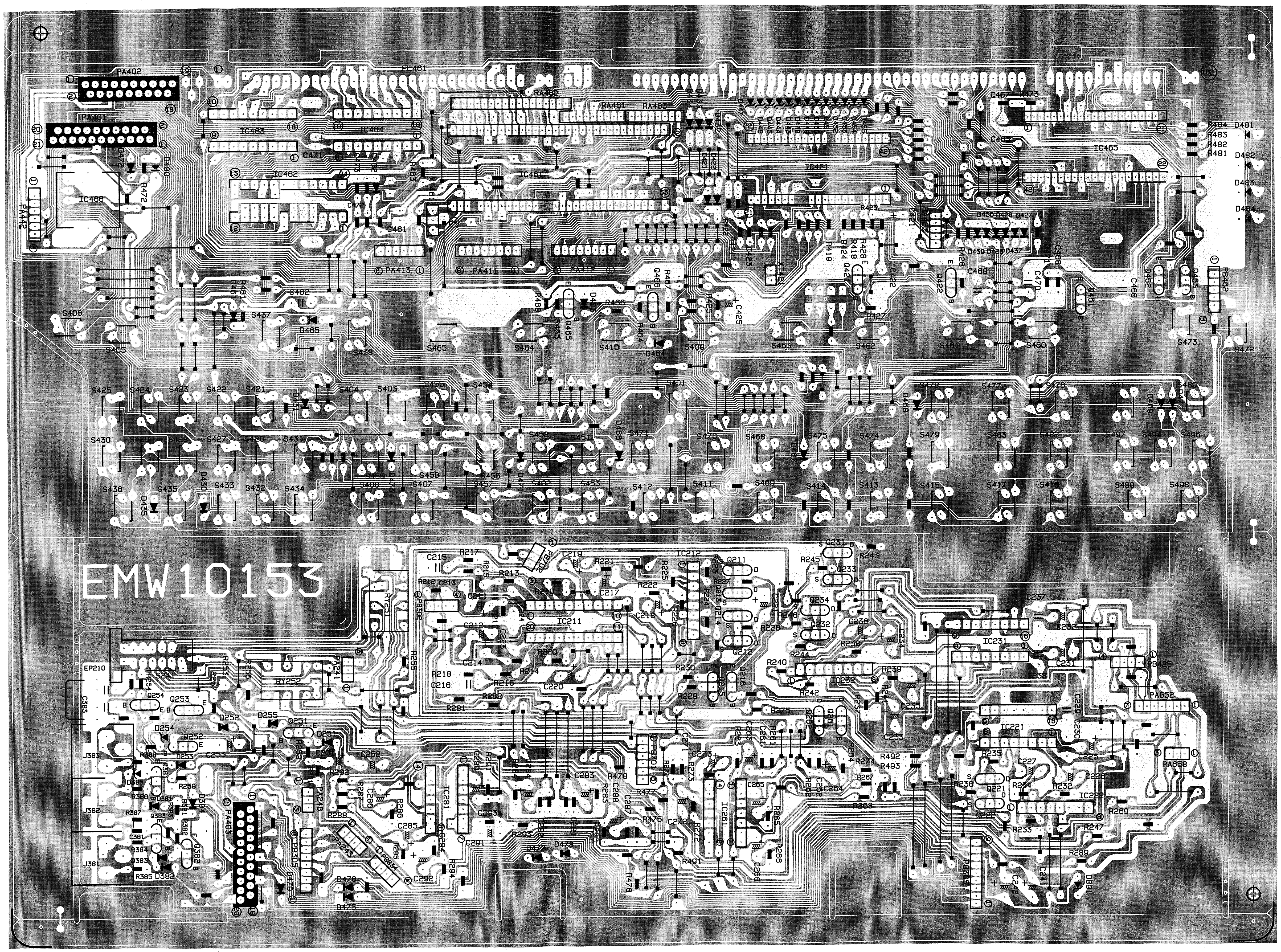
■ DAP & Prologic Section


ENP-039-1
PB655
DAP +B
DAP -B
VIDEO +B
GND
TO END-080-2
PB652
MONO OUT
CENTER OUT
CENTER
GND
GND
REAR L
REAR R
TO ENB-137-1
PB651
GND
DAP OUT L
DAP OUT R
GND
DAP IN L
DAP IN R
TO ENC-090-1
D591~594:MTZ13JC
CENTER OUT
MONO OUT
J590
J2001
MONITOR
VDP
VDP C/S
J2002
REC
VCR1
PLAY
VCR1 C/S
VCR IN
J2003
REC
VCR2
PLAY
VCR2 C/S
VCR IN
*D2021-2032 MTZ5.1JC
PA656
IC
CLK
DATA
WCK/REQ
STB 3
STB 4
VCR IN
VDP C/S
VCR2 C/S
VCR1 C/S
TO ENC-090-2
IC471 MC14577AP
IC472 MC14577AP
IC473 MC14577AP
IC474 LA7951
IC475 LA7951
IC476 NJM78M05FD
IC477 NJM79M05FA
IC674 XRA15218N
IC663 XRA15218N
IC664 XRA15218N
IC665 TC9176P
ON SCREEN C
ON SCREEN Y
V1 REC C
V2 REC C
V1 REC Y
V2 REC Y
+5V
-5V
+8
-8
STB4
DATA
CLK
DAP LEVEL
UNF.C.
PB245
V2
V1
TO ENC-090-1
PB657
Y
C
GND
GND
ON SCREEN Y
ON SCREEN C
VIDEO +B
TO ENP-039-2


J
K
L
M
N
O
P
Q
R
S
AUTO BALANCE
PRO LOGIC CIRCUIT
SYSTEM SELECT SW
MIXING
CRS
LRS
S1
S2
R1601 10 UNF.C. (1/4W)
R1602 10 UNF.C. (1/4W)
14.8
-15.3
Q1001 2SK163
IC667(1/2) XRA15218N
IC666(1/2) XRA15218N
IC668(1/2) XRA15218N
IC669(1/2) XRA15218N
IC670 M51523AL
D1201 1SS133
D1202 1SS133
D1203 1SS133
IC651(1/2) XRA15218N
IC653(1/2) XRA15218N
IC654(1/2) XRA15218N
IC655(1/2) XRA15218N
IC657(1/2) XRA15218N
IC658(1/2) XRA15218N
IC656(1/2) XRA15218N
IC671 TC9162N
IC672 TC9164N
VDD
VSS
DATA
CLK
STB3
IC673 XRA15218N (1/2)
IC673(1/2) XRA15218N
IC659(1/2) XRA15218N
IC660(1/2) XRA15218N
IC675 NJM78M05FD
IC661 YM7306C
IC662 LH2464-12
X1001 8.46M
BN651 EGF0801-222
L1001 1μH
D1001 1SS133
D1002 1SS133
D1003 1SS133
D1004 1SS133
D1005 1SS133
D1006 1SS133
D1007 1SS133
D1008 1SS133
A7
A6
A5
A4
A3
A2
WCK/REQ
DATA
IC676(1/2) XRA15218N
R1094 4.7K
R1095 4.7K
R1087 1K
R1088 1K
C1096 1.5M

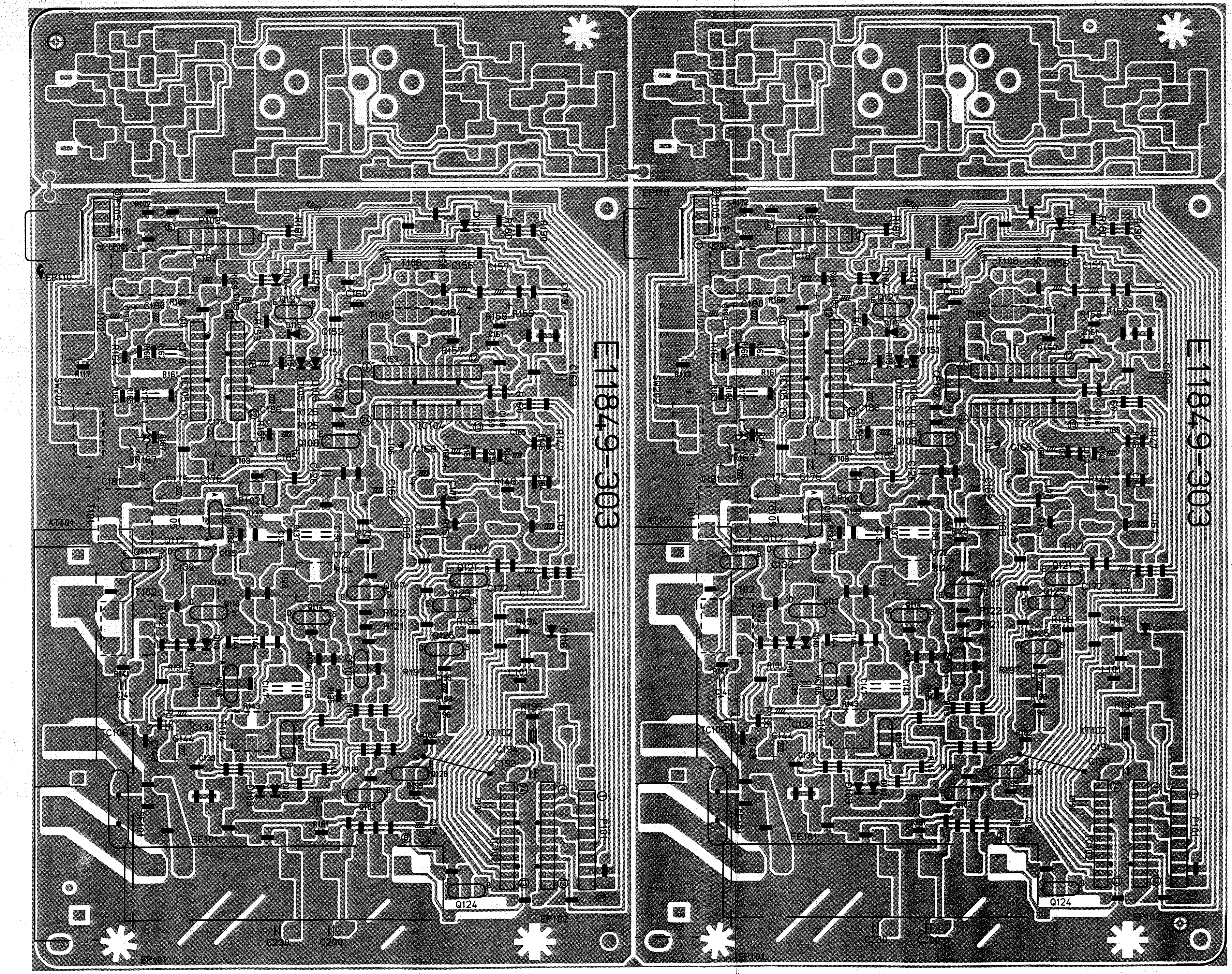
Printed Circuit Boards

■ System & Volume Control P.C. Board (ENB-137)


EMW10153
FL401
PA402
PA401
PA442
IC463
IC464
IC462
IC466
IC461
IC421
IC465
RA460
RA461
RA463
PA413
PA411
PA412
PB402
S405
S406
S425
S424
S423
S422
S421
S404
S403
S455
S454
S401
S478
S477
S476
S481
S480
S430
S429
S428
S427
S426
S431
S452
S451
S471
S470
S468
S475
S474
S479
S485
S482
S497
S494
S496
S436
S435
S433
S432
S434
S459
S458
S408
S407
S457
S456
S402
S453
S412
S411
S469
S414
S413
S415
S417
S416
S499
S498
S465
S464
S410
S409
S463
S462
S461
S460
S473
S472
S437
S438
IC212
IC211
IC231
IC232
IC221
IC222
IC261
IC291
RY251
RY252
EP210
J383
J382
J381
PA403
PB305
PB425
PA652
PA658
PA870
PB870
PB303
PA246
S241

RX-905VTN

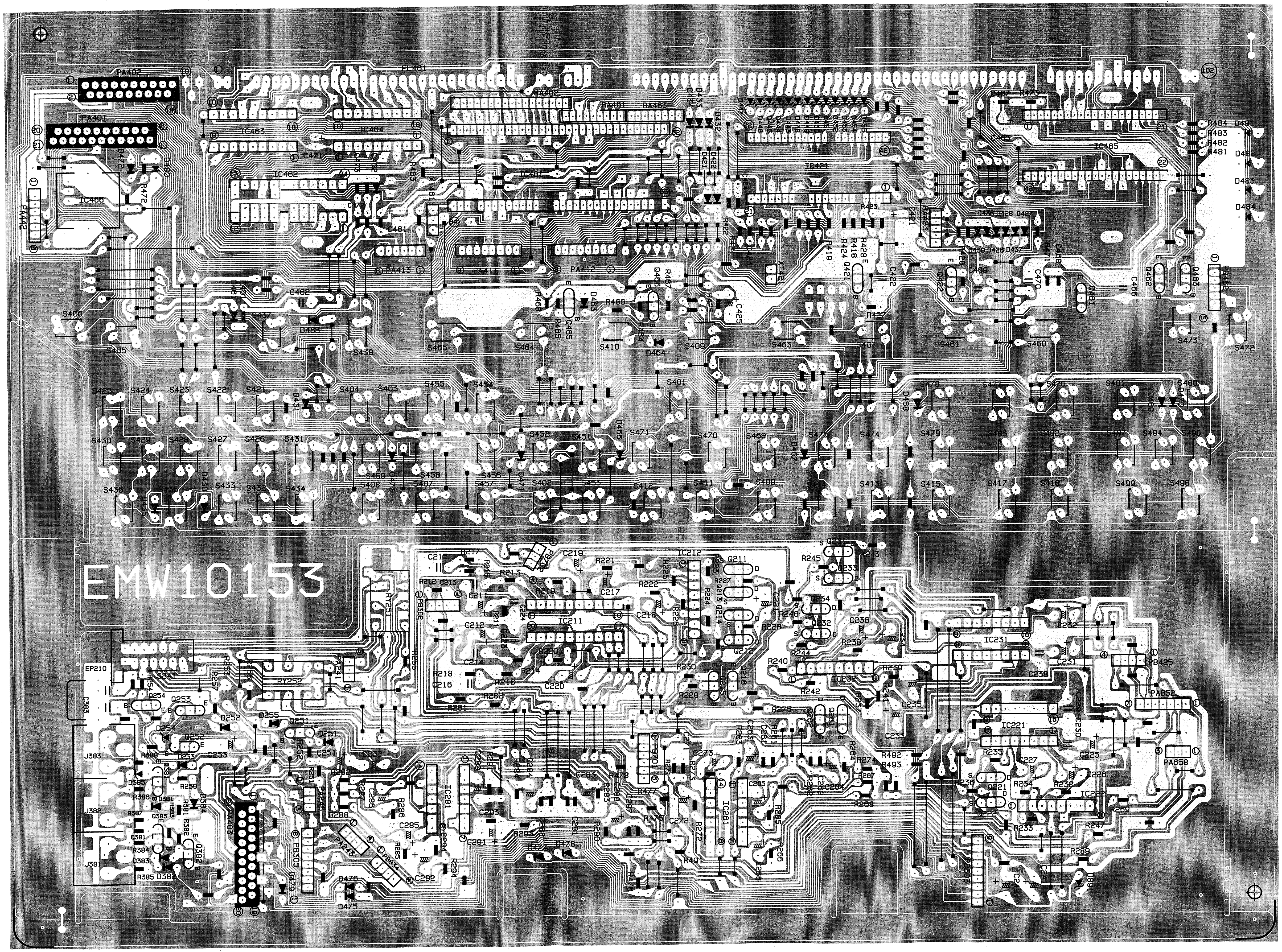
■ Tuner P.C. Board (ENA-089)


E11849-303
EP110
AT101
T102
T105
T106
T107
Q124
EP101
EP102
C230
C290
FE101
IC106

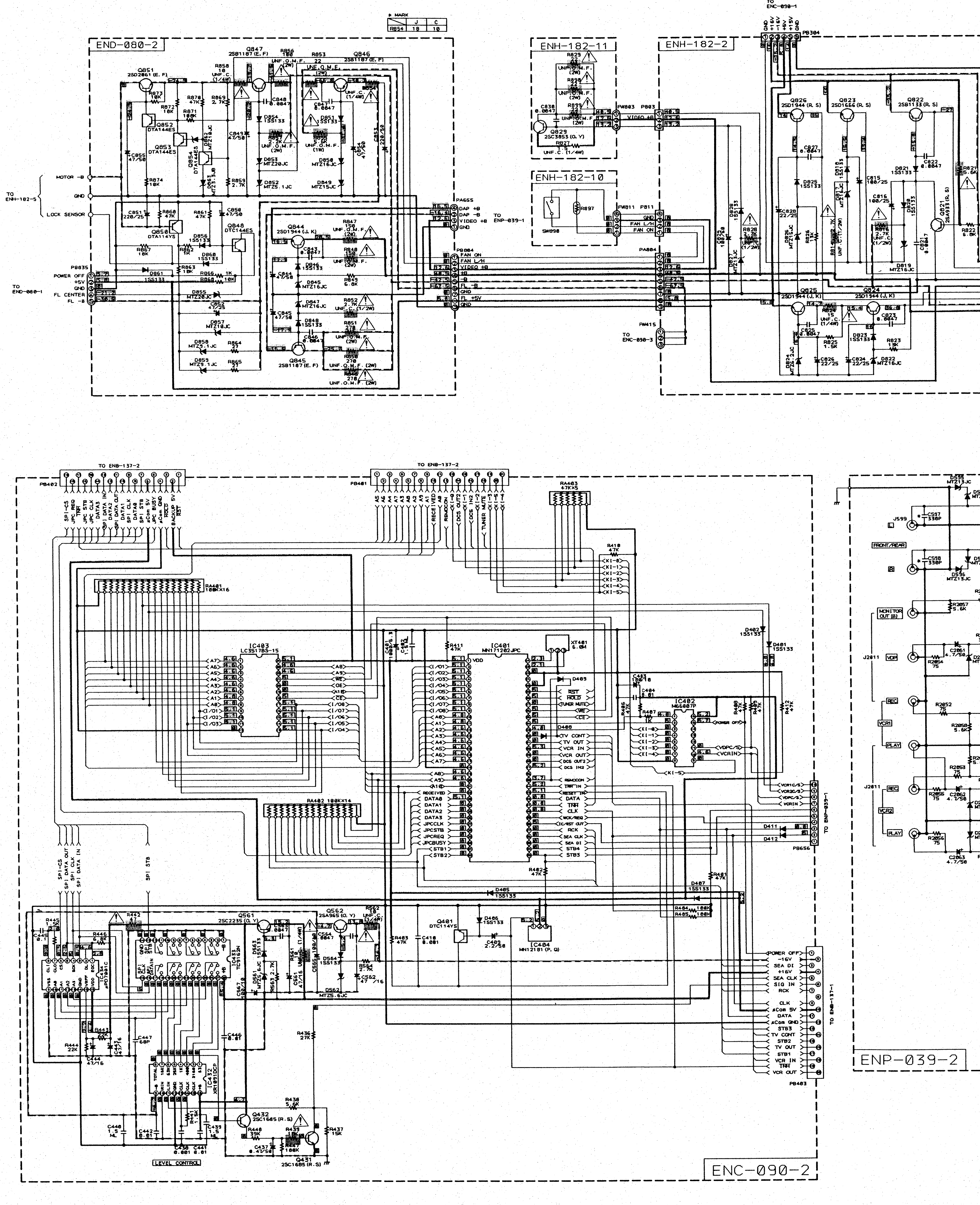
(No. 20283)

Printed Circuit Boards

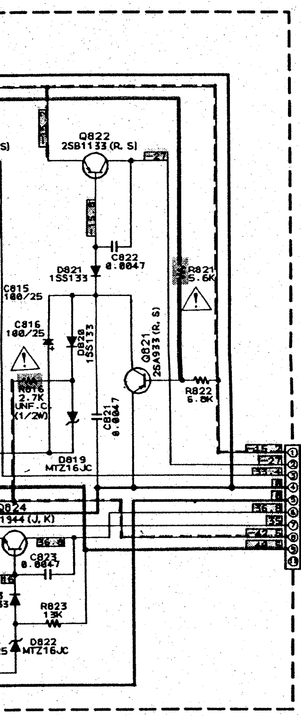
■ System & Volume Control P.C. Board (ENB-137)

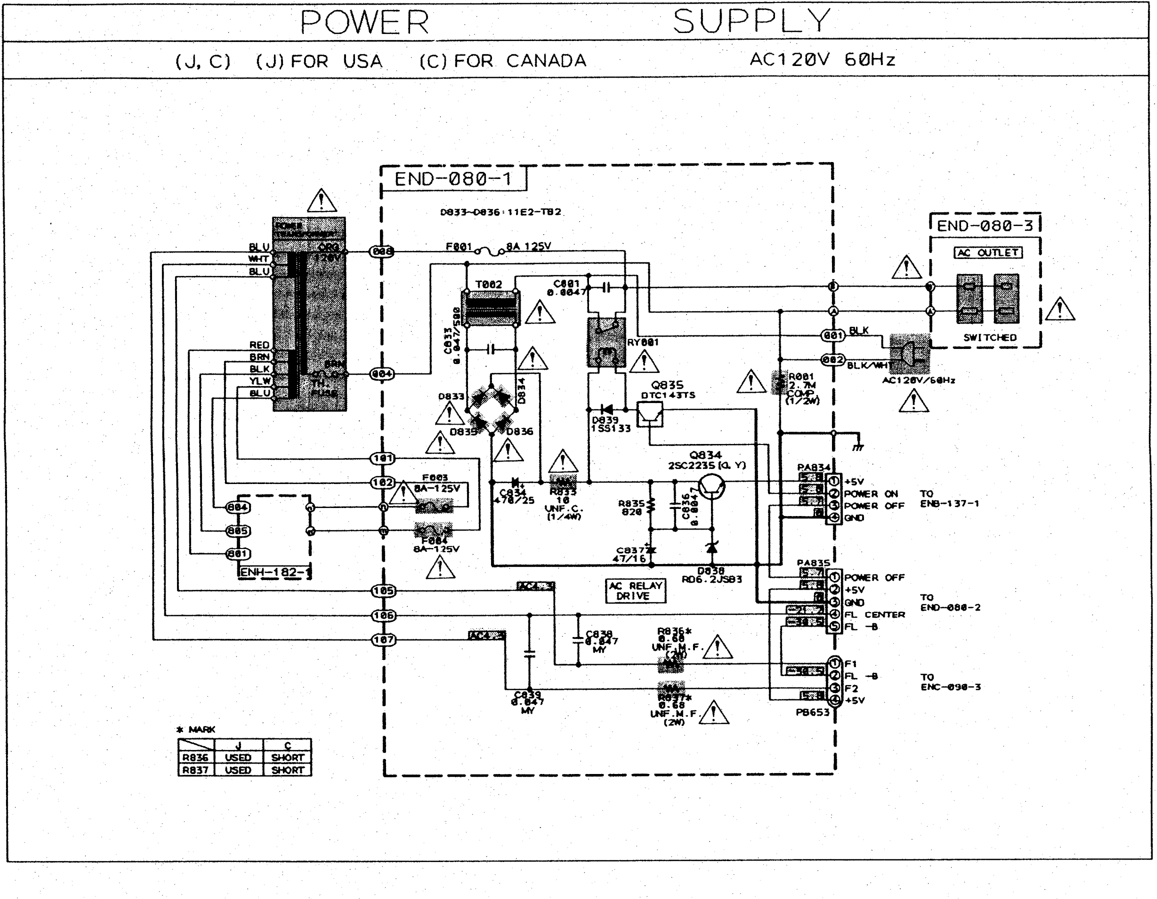

EMW10153
PA402
PA401
FL461
IC463
IC464
IC462
IC461
IC421
IC465
IC466
RA462
RA461
RA463
PA442
PA413
PA411
PA412
PB402
S405
S406
S401
S465
S464
S410
S409
S463
S462
S461
S460
S473
S472
D491
D482
D483
D484
X'tal
IC211
IC212
IC231
IC232
IC221
IC222
IC261
IC281
RY251
RY252
EP210
J383
J382
J381
PA403
PA241
PB425
PA652
PA658

■ System Control, Video Signal & Power Supply


END-080-2
ENH-182-11
ENH-182-10
ENH-182-2
ENC-090-2
ENP-039-2
TO ENH-182-5
MOTOR -B
GND
LOCK SENSOR
TO END-080-1
POWER OFF
+5V
GND
FL CENTER
FL -B
TO ENP-039-1
TO ENC-090-3
TO ENC-090-1
TO ENB-137-2
TO ENB-137-1
TO ENP-039-1
IC401 MN171202JPC
IC402 M66007P
IC403 LC3517BS-15
IC404 MN1218I (P, Q)
IC431
IC432
IC433 TC9162N
XT401
RA401 100KX16
RA402 100KX14
RA403 47KX5
Q431 2SC1685 (R, S)
Q432 2SC1685 (R, S)
Q561 2SC2235 (O, Y)
Q562 2SA965 (O, Y)
Q401 DTC114YS
Q844 2SD1944 (J, K)
Q845 2SB1187 (E, F)
Q846 2SB1187 (E, F)
Q847 2SB1187 (E, F)
Q848 DTC144ES
Q850 DTA114YS
Q851 2SD2061 (E, F)
Q852 DTA144ES
Q853 DTA144ES
Q854 DTA144ES
Q829 2SC3853 (O, Y)
Q821 2SA933 (R, S)
Q822 2SB1133 (R, S)
Q823 2SD1666 (R, S)
Q824 2SD1944 (J, K)
Q825 2SD1944 (J, K)
Q826 2SD1944 (R, S)
LEVEL CONTROL
FRONT/REAR
MONITOR OUT (B)
J2011
VDP
REC
VCR1
PLAY
VCR2

J K L M N O P Q R S

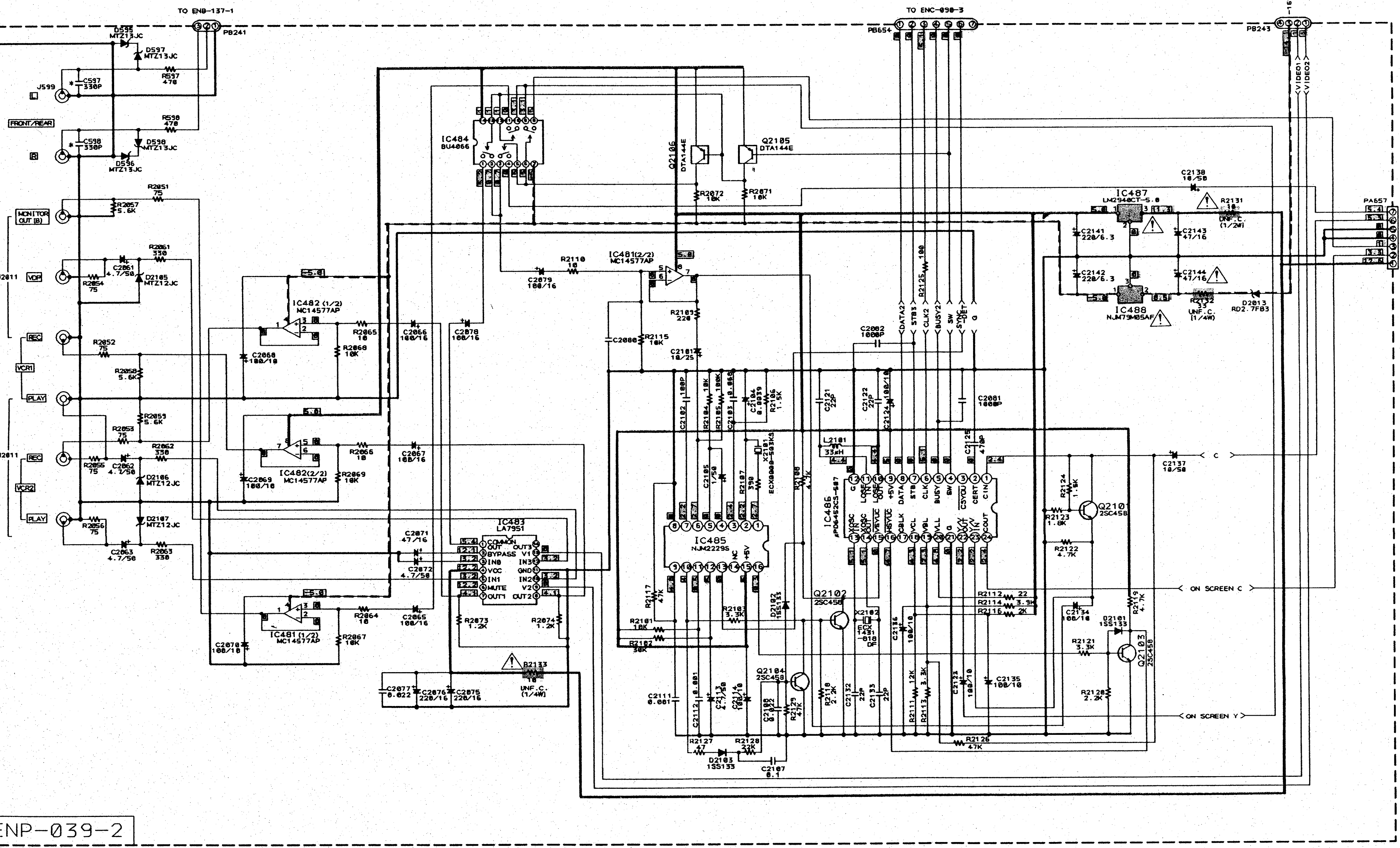

Q822
2SB1133(R, S)
C822
0.0047
R821
5.6K
D821
1SS133
C815
100/25
C816
100/25
Q821
2SA933(R, S)
R822
6.8K
R816
2.7K
UNF.C.
(1/2W)
C821
0.0047
D819
MTZ16JC
PA802
-16V
GND
GND
TO
ENH-182-1
-8
+8
Q824
C823
0.0047
R823
10K
D822
MTZ16JC



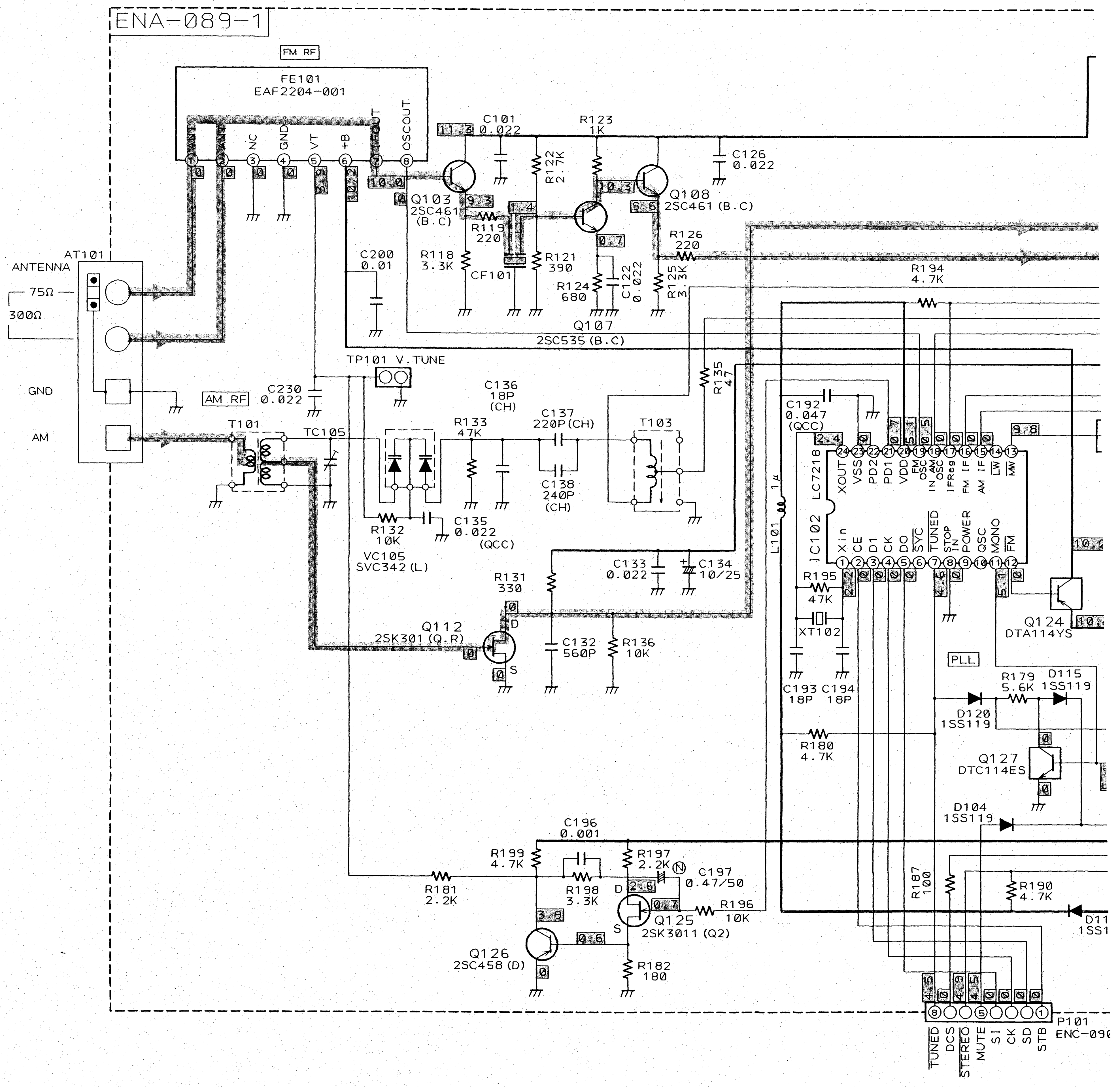
POWER SUPPLY

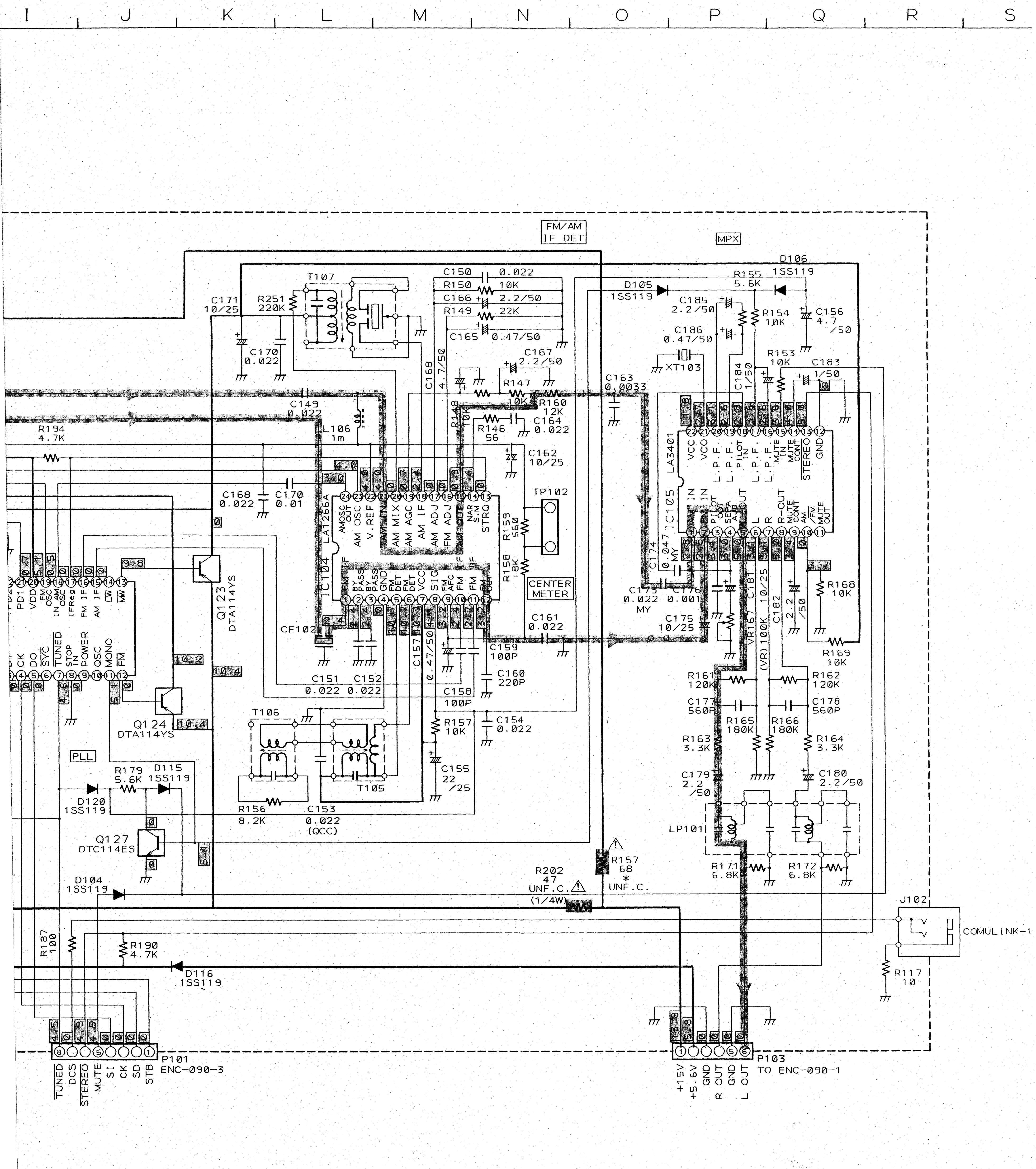
(J, C) (J) FOR USA (C) FOR CANADA AC120V 60Hz

END-080-1
D833-D836 : 11E2-TB2
POWER TRANSFORMER
BLU
WHT
BLU
RED
BRN
BLK
YLW
BLU
BRN
TH-FUSE
F801
8A 125V
T802
C801
0.0047
C835
0.047 250
RY801
D834
D833
D835
D836
R801
2.2M
UNF.C.
(1/2W)
Q835
DTC143TS
D839
1SS133
Q834
2SC2235(O, Y)
F803
8A-125V
F804
8A-125V
C834
470/25
R833
10
UNF.C.
(1/4W)
R835
820
C836
0.047
C837
47/16
D838
RD6.2JSB3
AC RELAY DRIVE
C838
0.047
MY
R836*
0.68
UNF.M.F.
(2W)
C839
0.047
MY
R837*
0.68
UNF.M.F.
(2W)
ENH-182-1
END-080-3
AC OUTLET
SWITCHED
BLK
BLK/WHT
AC120V/60Hz
PA834
+5V
POWER ON
POWER OFF
GND
TO
ENB-137-1
PA835
POWER OFF
+5V
GND
FL CENTER
FL -8
TO
END-080-2
F1
FL -8
F2
+5V
PB653
TO
ENC-090-3
* MARK
R836 USED SHORT
R837 USED SHORT
J C

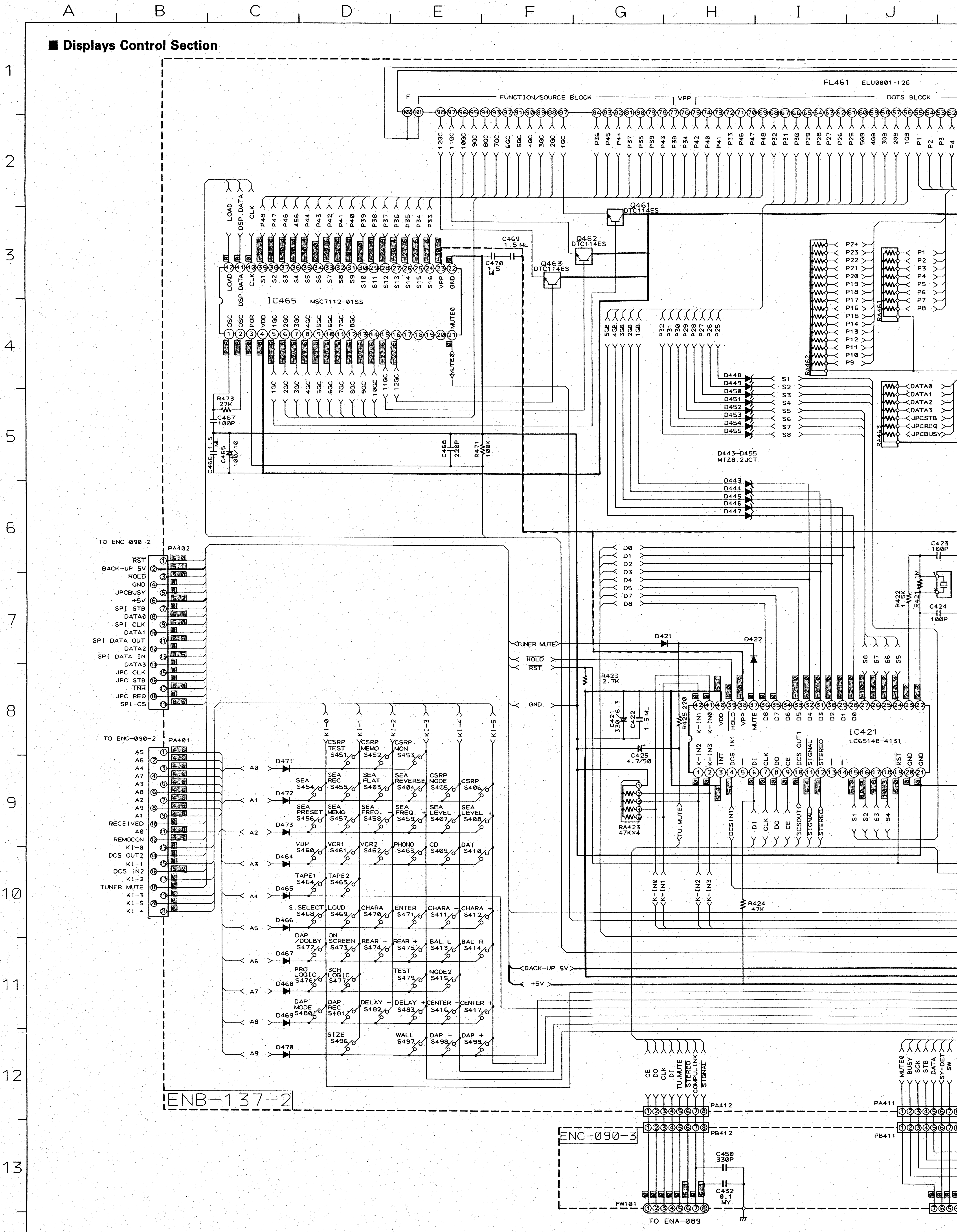

TO ENB-137-1
PB241
D595
MTZ13JC
D597
MTZ13JC
R597
470
J599
C597
330P
FRONT/REAR
R598
470
C598
330P
D598
MTZ13JC
D596
MTZ13JC
R2051
75
MONITOR OUT (B)
R2057
5.6K
VDP
R2061
330
C2061
4.7/50
R2054
75
D2105
MTZ12JC
REC
R2052
75
VCR1
R2058
5.6K
PLAY
R2059
5.6K
R2053
75
REC
R2062
330
R2055
75
C2062
4.7/50
D2106
MTZ12JC
VCR2
PLAY
D2107
MTZ12JC
R2056
75
C2063
4.7/50
R2063
330
IC484
BU4066
Q2106
DTA144E
Q2105
DTA144E
R2072
10K
R2071
10K
IC482(1/2)
MC14577AP
C2068
100/10
R2065
10
R2068
10K
C2066
100/16
C2070
100/16
IC482(2/2)
MC14577AP
C2069
100/10
R2066
10
R2069
10K
C2067
100/16
IC481(1/2)
MC14577AP
C2078
100/10
R2064
10
R2067
10K
C2065
100/16
C2079
100/16
R2110
10
IC481(2/2)
MC14577AP
R2101
220
R2115
10K
C2080
C2101
10/25
IC483
LA7951
COMMON
OUT3
BYPASS
V1
IN0
IN3
VCC
GND
IN1
IN2
MUTE
V2
OUT1
OUT2
C2071
47/16
C2072
4.7/50
R2073
1.2K
R2074
1.2K
C2077
0.022
C2076
220/16
C2075
220/16
R2133
10
UNF.C.
(1/4W)
IC485
NJM2229S
C2102
100P
R2104
R2103
R2105
C2104
R2106
1.5K
X2101
ECX0009-503X3
C2105
1/50
R2107
R2108
4.7K
D2102
1SS133
R2117
47K
R2101
10K
R2102
30K
R2103
3.3K
C2111
0.001
C2112
0.001
C2113
C2114
100/10
R2127
47
D2103
1SS133
R2128
22K
C2107
0.1
Q2104
2SC458
C2106
R2129
4.7K
Q2102
2SC458
R2118
2.2K
X2102
FCX1431
-010
C2132
22P
C2133
22P
C2136
100/10
L2101
33μH
C2121
22P
C2122
22P
C2123
C2124
100/10
C2082
100P
DATA2
STB3
CLK2
BUSY2
R2125
100
+5V
CS
C2081
100P
IC486
μPD6462CS-687
R2111
12K
R2113
3.9K
C2125
470P
C2126
100/10
R2126
47K
R2112
22
R2114
3.9K
R2116
2K
TO ENC-090-3
PB654
TO ENB-137-1
PB243
-16V
VIDEO1
VIDEO2
IC487
LM2940CT-5.0
C2138
10/50
R2131
10
UNF.C.
(1/2W)
C2141
220/6.3
C2143
47/16
C2142
220/6.3
C2144
47/16
IC488
NJM79M05AF
R2132
33
UNF.C.
(1/4W)
D2013
RD2.7FB3
PA657
Y
C
GND
GND
ON SCREEN Y
ON SCREEN C
VIDEO+8
TO ENP-039-1
C2137
10/50
C
R2124
1.8K
Q2101
2SC458
R2123
1.8K
R2122
4.7K
ON SCREEN C
C2134
100/10
D2101
1SS133
R2119
4.7K
R2121
3.3K
Q2103
2SC458
C2135
100/10
R2120
2.2K
ON SCREEN Y
ENP-039-2

■ Tuner Section

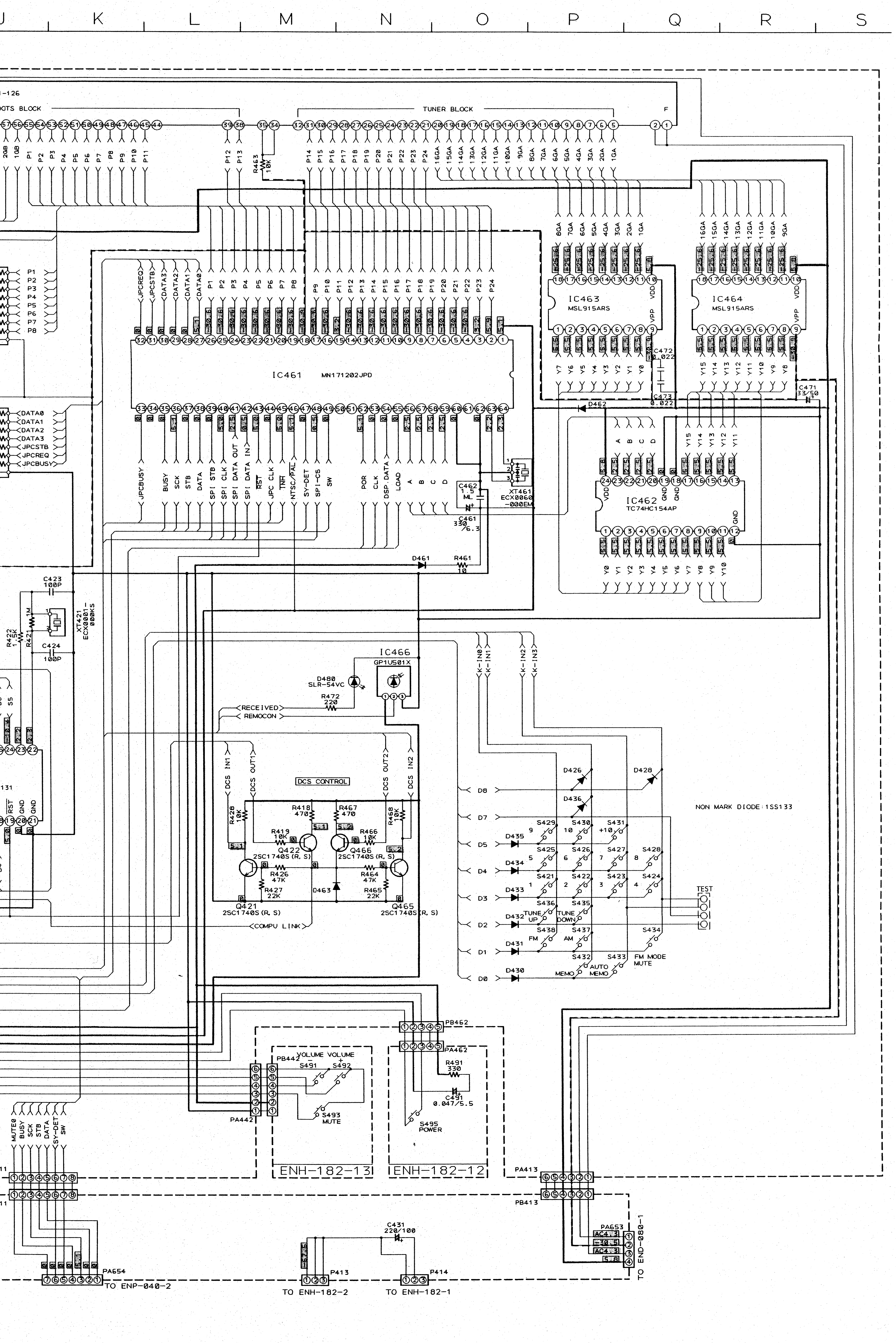

ENA-089-1
FM RF
FE101
EAF2204-001
ANT
ANT
NC
GND
VT
+B
IFOUT
OSCOUT
AT101
ANTENNA
75Ω
300Ω
GND
AM
AM RF
T101
TC105
C230 0.022
TP101 V.TUNE
C200 0.01
C101 0.022
R123 1K
C126 0.022
R122 2.7K
Q103 2SC461 (B.C)
R119 220
R118 3.3K
CF101
R121 390
R124 680
C122 0.022
Q107 2SC535 (B.C)
Q108 2SC461 (B.C)
R126 220
R125 3.3K
R194 4.7K
R135 47
C136 18P (CH)
R133 47K
C137 220P (CH)
C138 240P (CH)
T103
R132 10K
C135 0.022 (QCC)
VC105 SVC342 (L)
R131 330
C133 0.022
C134 10/25
Q112 2SK301 (Q.R)
D
S
C132 560P
R136 10K
C192 0.047 (QCC)
IC102 LC7218
XOUT
VSS
PD2
PD1
VDD
FM OSC
IN AM OSC
IFReq
FM IF
AM IF
LW
MW
Xin
CE
D1
CK
DO
SYC
TUNED
STOP IN
POWER
OSC
MONO
FM
L101 1μ
R195 47K
XT102
C193 18P
C194 18P
Q124 DTA114YS
PLL
R179 5.6K
D115 1SS119
D120 1SS119
R180 4.7K
Q127 DTC114ES
D104 1SS119
C196 0.001
R199 4.7K
R197 2.2K
Ⓝ
C197 0.47/50
R181 2.2K
R198 3.3K
Q125 2SK3011 (Q2)
R196 10K
Q126 2SC458 (D)
R182 180
R187 100
R190 4.7K
D11
1SS1
P101 ENC-09(
TUNED
DCS
STEREO
MUTE
SI
CK
SD
STB
11.3
10.0
9.3
1.4
10.3
9.6
0.7
0
3.9
10.2
2.4
0.7
5.1
9.8
2.2
4.6
5.1
2.6
0.7
3.9
0.6
4.5
4.9
4.5

I
J
K
L
M
N
O
P
Q
R
S
FM/AM
IF DET
MPX
T107
R251 220K
C171 10/25
C170 0.022
C150 0.022
R150 10K
C166 2.2/50
R149 22K
C165 0.47/50
C168 4.7/50
C167 2.2/50
R147 10K
R160 12K
R148 10K
R146 56
C164 0.022
C162 10/25
TP102
R159 560
R158 18K
CENTER METER
C149 0.022
L106 1m
R194 4.7K
C168 0.022
C170 0.01
IC104 LA1266A
AMOSC OUT
AM OSC
V.REF
AM IN
AM MIX
AM AGC
AM IF
FM ADJ
AM ADJ
AM OUT
NAR S.M
STRQ
FM IF
BY PASS
BY PASS
GND
FM DET
FM DET
VCC
SIG
FM AFC
FM IF
FM IF
FM OUT
CF102
C157 0.47/50
C159 100P
C160 220P
C161 0.022
C151 0.022
C152 0.022
C158 100P
R157 10K
C154 0.022
C155 22 /25
T106
T105
R156 8.2K
C153 0.022 (QCC)
Q123 DTA114YS
Q124 DTA114YS
PLL
R179 5.6K
D115 1SS119
D120 1SS119
Q127 DTC114ES
D104 1SS119
R187 100
R190 4.7K
D116 1SS119
R202 47 UNF.C. (1/4W)
R157 68 * UNF.C.
D105 1SS119
D106 1SS119
R155 5.6K
C185 2.2/50
C186 0.47/50
R154 10K
C156 4.7 /50
XT103
R153 10K
C183 1/50
C184 1/50
C163 0.0033
IC105 LA3401
VCC
VCO
L.P.F.
L.P.F.
PILOT IN
L.P.F.
L.P.F.
MUTE IN
MUTE CONT
STEREO
GND
IN
IN
PILOT OUT
SEPA ADJ
L OUT
L
R
R-OUT
MUTE CONT
AM/FM
MUTE OUT
C174 0.047 MY
C173 0.022 MY
C176 0.001
C175 10/25
VR167 (VR) 100K
C181 10/25
C182 2.2 /50
R168 10K
R169 10K
R161 120K
R162 120K
C177 560P
C178 560P
R165 180K
R166 180K
R163 3.3K
R164 3.3K
C179 2.2 /50
C180 2.2/50
LP101
R171 6.8K
R172 6.8K
J102
COMULINK-1
R117 10
TUNED
STOP IN
POWER
QSC
MONO
FM
CK
DO
SYC
PD1
VDD
FM OSC IN
AM OSC
IFReg
FM IF
AM IF
LW
MW
P101 ENC-090-3
TUNED
DCS
STEREO
MUTE
SI
CK
SD
STB
P103 TO ENC-090-1
+15V
+5.6V
GND
R OUT
GND
L OUT
4.5
4.9
4.5
13.8
5.8
9.8
10.2
10.4
10.4
5.1
4.6
3.7

■ Displays Control Section

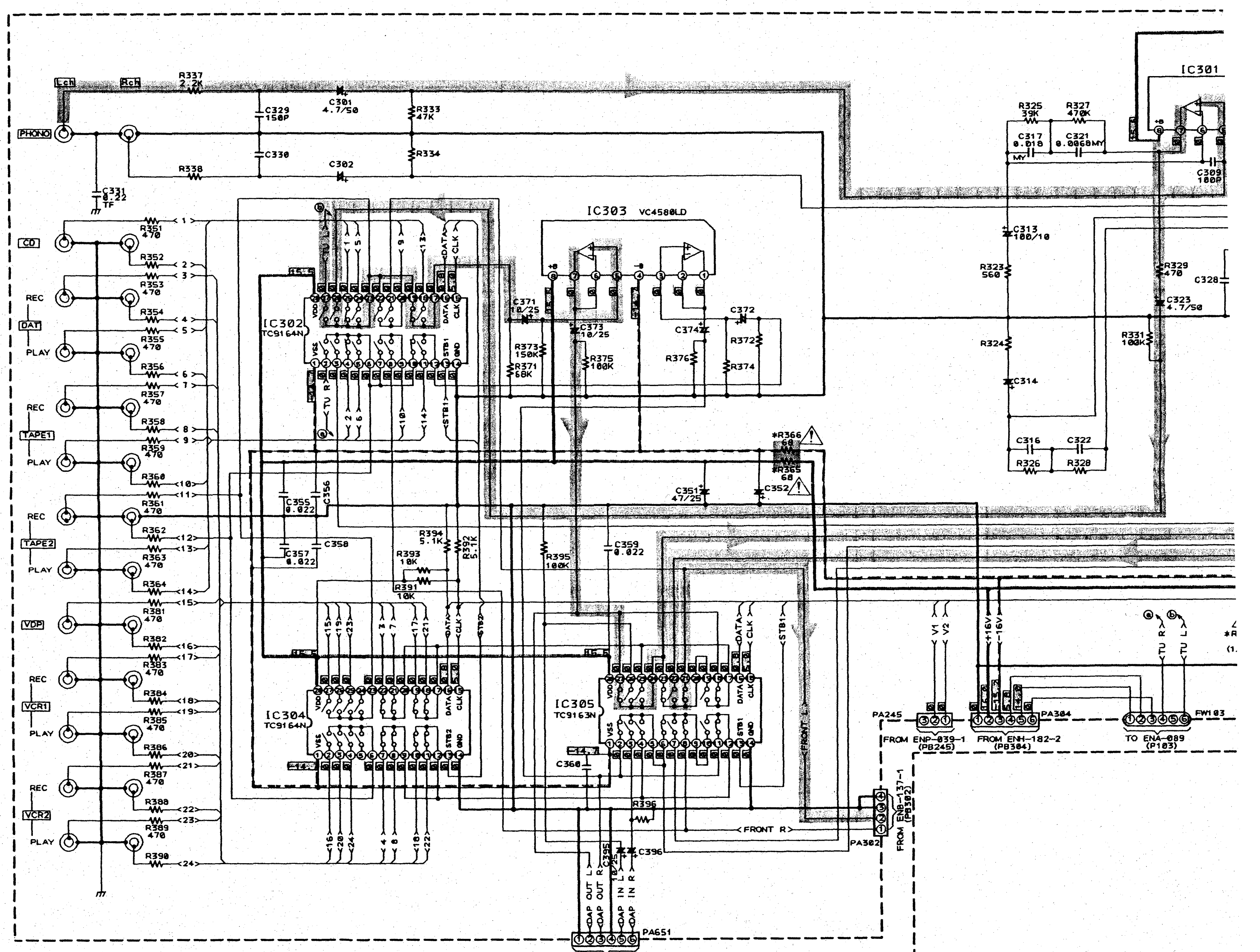


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
FL461 ELU0001-126
FUNCTION/SOURCE BLOCK
VPP
DOTS BLOCK
Q461 DTC114ES
Q462 DTC114ES
Q463 DTC114ES
C469 1.5 ML
C470 1.5 ML
IC465 MSC7112-01SS
LOAD
DSP.DATA
CLK
MUTE0
R473 27K
C467 100P
C466 1.5 ML
C465 100/10
C468 220P
R471 100K
D448
D449
D450
D451
D452
D453
D454
D455
D443~D455 MTZ8.2JCT
D443
D444
D445
D446
D447
RA461
RA462
RA463
DATA0
DATA1
DATA2
DATA3
JPCSTB
JPCREQ
JPCBUSY
C423 100P
C424 100P
R422 1.5K
R421 1M
TO ENC-090-2
PA402
RST
BACK-UP 5V
HOLD
GND
JPCBUSY
+5V
SPI STB
DATA0
SPI CLK
DATA1
SPI DATA OUT
DATA2
SPI DATA IN
DATA3
JPC CLK
JPC STB
INH
JPC REQ
SPI-CS
TO ENC-090-2
PA401
A5
A6
A4
A7
A3
A8
A2
A9
A1
RECEIVED
A0
REMOCON
KI-0
DCS OUT2
KI-1
DCS IN2
KI-2
TUNER MUTE
KI-3
KI-5
KI-4
TUNER MUTE
HOLD
RST
GND
D421
D422
R423 2.7K
C421 330/6.3
C422 1.5 ML
R425 220
C425 4.7/50
RA423 47K×4
IC421 LC65148-4131
R424 47K
BACK-UP 5V
+5V
D471
D472
D473
D464
D465
D466
D467
D468
D469
D470
CSRP TEST S451
CSRP MEMO S452
CSRP MON S453
SEA S454
SEA REC S455
SEA FLAT S403
SEA REVERSE S404
CSRP MODE S405
CSRP S406
SEA PRESET S456
SEA MEMO S457
SEA FREQ. − S458
SEA FREQ. + S459
SEA LEVEL − S407
SEA LEVEL + S408
VDP S460
VCR1 S461
VCR2 S462
PHONO S463
CD S409
DAT S410
TAPE1 S464
TAPE2 S465
S.SELECT S468
LOUD S469
CHARA S470
ENTER S471
CHARA − S411
CHARA + S412
DAP /DOLBY S472
ON SCREEN S473
REAR − S474
REAR + S475
BAL L S413
BAL R S414
PRO LOGIC S476
3CH LOGIC S477
TEST S479
MODE2 S415
DAP MODE S480
DAP REC S481
DELAY − S482
DELAY + S483
CENTER − S416
CENTER + S417
SIZE S496
WALL S497
DAP − S498
DAP + S499
CE
DO
CLK
DI
TU.MUTE
STEREO
COMPULINK
SIGNAL
PA412
PB412
PA411
PB411
MUTE0
BUSY
SCK
STB
DATA
SY-DET
SW
ENB-137-2
ENC-090-3
C450 330P
C432 0.1 MY
FW101
TO ENA-089

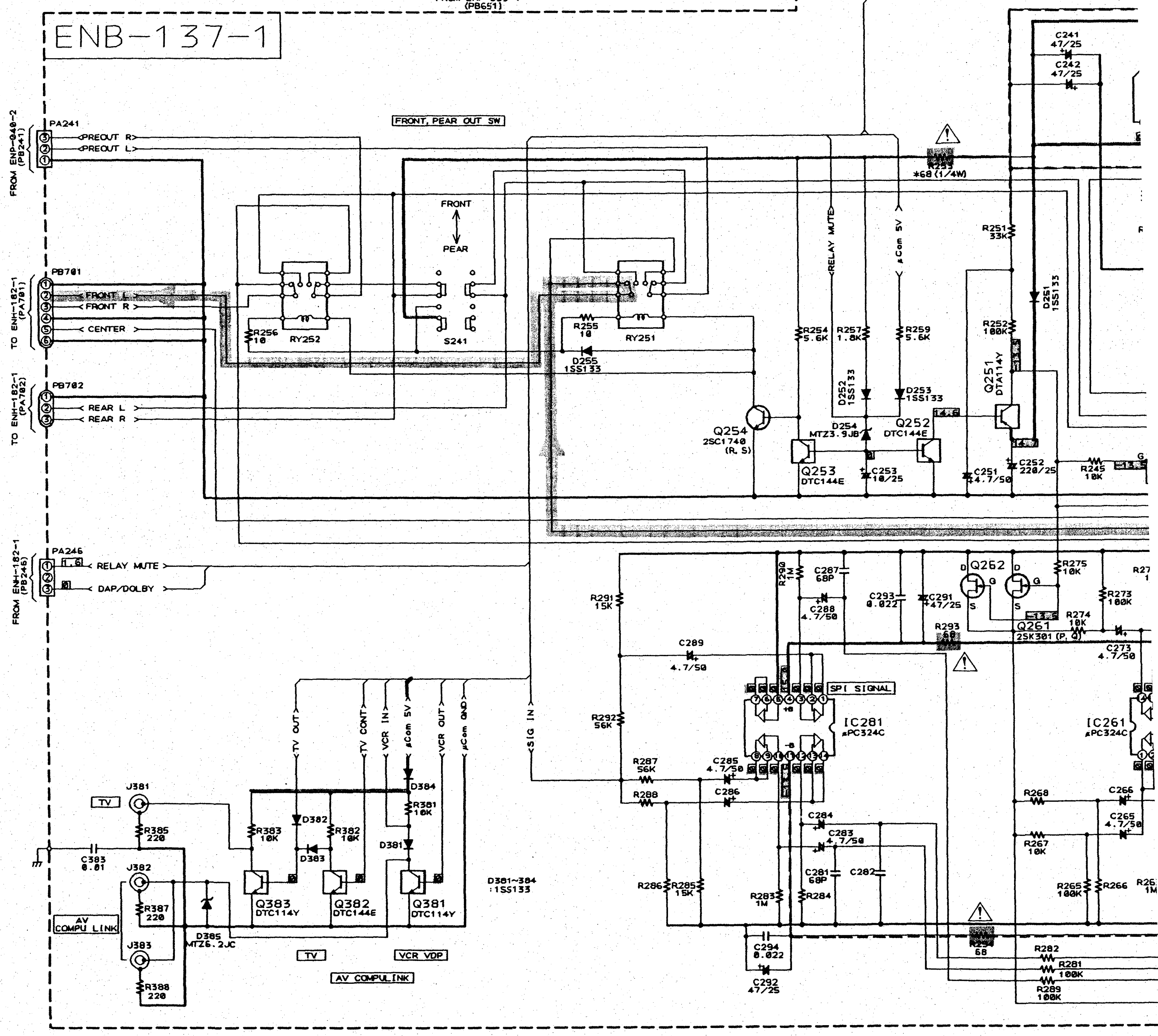


J K L M N O P Q R S
-126
DOTS BLOCK
TUNER BLOCK
F
IC461 MN171202JPD
IC462 TC74HC154AP
IC463 MSL915ARS
IC464 MSL915ARS
IC466 GP1U501X
D480 SLR-54VC
R472 220
R463 10K
C472 0.022
C473 0.022
C471 33/50
D462
C462 1.5 ML
C461 330/6.3
XT461 ECX0060-000EM
D461
R461 10
C423 100P
C424 100P
R421 1M
R422 1.5K
XT421 ECX0001-000KS
JPCREQ JPCSTB DATA3 DATA2 DATA1 DATA0
DATA0 DATA1 DATA2 DATA3 JPCSTB JPCREQ JPCBUSY
JPCBUSY BUSY SCK STB DATA SPI STB SPI CLK SPI DATA OUT SPI DATA IN RST JPC CLK TNH NTSC/PAL SY-DET SPI-CS SW
POR CLK DSP DATA LOAD A B C D
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24
1GA 2GA 3GA 4GA 5GA 6GA 7GA 8GA 9GA 10GA 11GA 12GA 13GA 14GA 15GA 16GA
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10 Y11 Y12 Y13 Y14 Y15
VDD VPP GND
K-IN0 K-IN1 K-IN2 K-IN3
RECEIVED
REMOCON
DCS CONTROL
DCS IN1 DCS OUT1 DCS OUT2 DCS IN2
R428 10K
R418 470
R467 470
R468 10K
R419 10K
R466 10K
Q422 2SC1740S(R, S)
Q466 2SC1740S(R, S)
R426 47K
R427 22K
R464 47K
R465 22K
D463
Q421 2SC1740S(R, S)
Q465 2SC1740S(R, S)
COMPU LINK
D0 D1 D2 D3 D4 D5 D7 D8
D426 D428 D436
D435 D434 D433 D432 D431 D430
NON MARK DIODE:1SS133
S429 9 S430 10 S431 +10
S425 5 S426 6 S427 7 S428 8
S421 1 S422 2 S423 3 S424 4
S436 TUNE UP S435 TUNE DOWN
S438 FM S437 AM S434
S432 AUTO MEMO MEMO S433 FM MODE MUTE
TEST
131
RST GND
MUTE0 BUSY SCK STB DATA SY-DET SW
PB462 PA462
R491 330
C491 0.047/5.5
S495 POWER
PB442 VOLUME - VOLUME + S491 S492
S493 MUTE
PA442
ENH-182-13
ENH-182-12
PA413 PB413
PA653
TO END-080-1
PA654 TO ENP-040-2
C431 220/100
P413 TO ENH-182-2
P414 TO ENH-182-1

■ Source Selection & SEA Section



A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
PHONO
Lch
Rch
CD
REC
DAT
PLAY
TAPE1
TAPE2
VDP
VCR1
VCR2
IC301
IC302
TC9164N
IC303 VC4580LD
IC304
TC9164N
IC305
TC9163N
R337 2.2K
C301 4.7/50
C329 150P
R333 47K
C330
C302
R334
R338
C331 0.22 TF
DATA
CLK
STB1
TU R
TU L
FRONT L
FRONT R
DAP OUT L
DAP OUT R
DAP IN L
DAP IN R
PA245
FROM ENP-039-1 (PB245)
FROM ENH-182-2 (PB304)
PA304
FW103
TO ENA-089 (P103)
PA302
FROM ENB-137-1 (PB302)
PA651
FROM ENP-039-1 (PB651)
*R366 68
*R365 68
C351 47/25
C352
R395 100K
C359 0.022



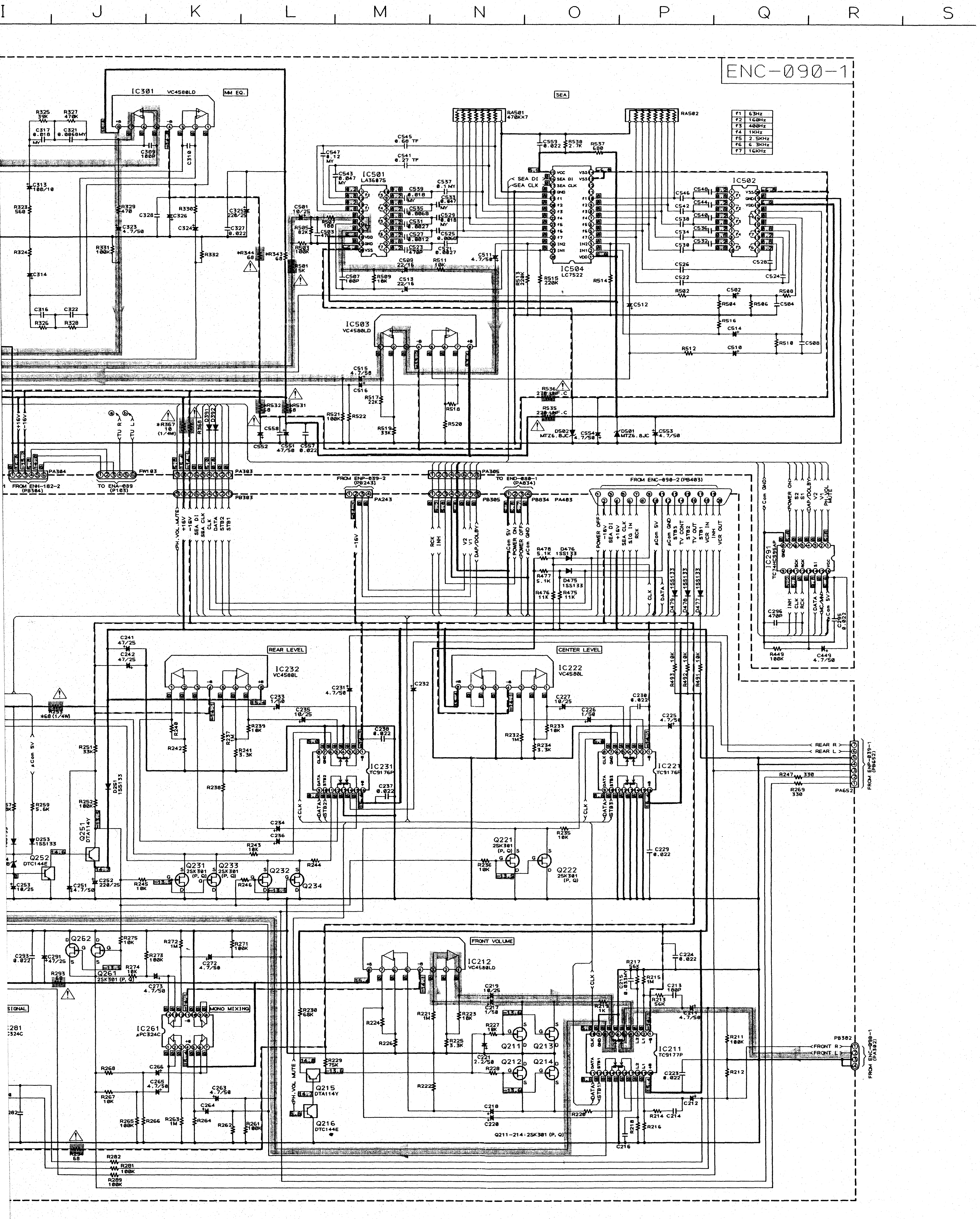
7
8
9
10
11
12
13
ENB-137-1
PA241
FROM ENP-040-2 (PB241)
PREOUT R
PREOUT L
FRONT, REAR OUT SW
FRONT
REAR
PB701
TO ENH-182-1 (PA701)
FRONT L
FRONT R
CENTER
PB702
TO ENH-182-1 (PA702)
REAR L
REAR R
RY252
RY251
S241
R256 10
R255 10
D255 1SS133
*R253
*68 (1/4W)
RELAY MUTE
Com 5V
R254 5.6K
R257 1.8K
R259 5.6K
D252 1SS133
D253 1SS133
D254 MTZ3.9JB
Q254 2SC1740 (R, S)
Q253 DTC144E
Q252 DTC144E
Q251 DTA114Y
C253 10/25
C251 4.7/50
C252 220/25
R245 10K
R252 100K
R251 33K
D261 1SS133
C241 47/25
C242 47/25
PA246
FROM ENH-182-1 (PB246)
RELAY MUTE
DAP/DOLBY
Q262
Q261 2SK301 (P, Q)
IC281 μPC324C
IC261 μPC324C
SPI SIGNAL
SIG IN
TV OUT
TV CONT
VCR IN
Com 5V
VCR OUT
Com GND
J381
J382
J383
TV
AV COMPU LINK
R385 220
R387 220
R388 220
C383 0.01
D385 MTZ6.2JC
D381
D382
D383
D384
D381~384 :1SS133
Q383 DTC114Y
Q382 DTC144E
Q381 DTC114Y
R383 10K
R382 10K
R381 10K
VCR VDP

*MARK

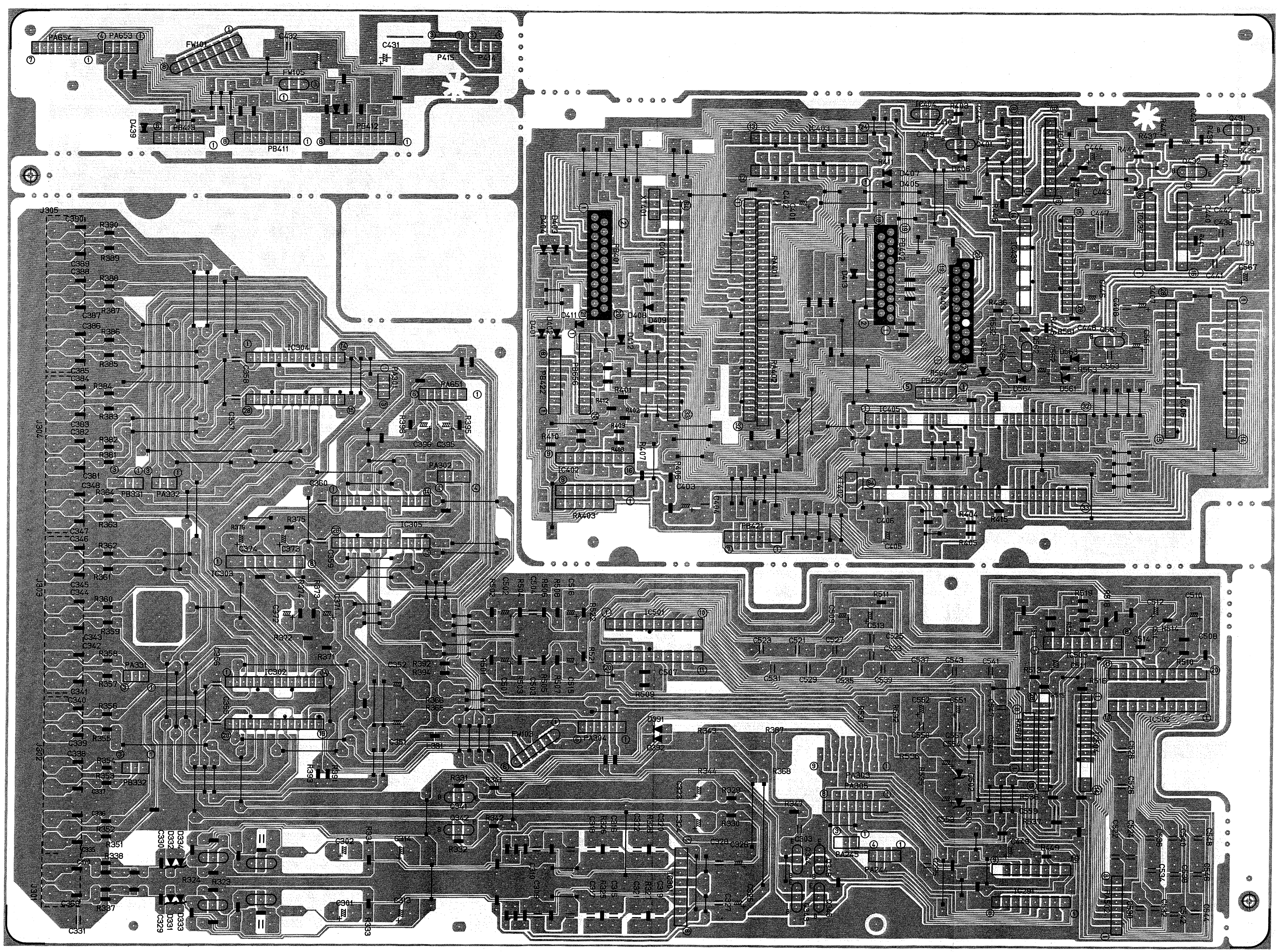
	J	C
R343, 344	UNF.C.	UNF.F.
R365, 366	UNF.C.	UNF.F.
R531, 532	UNF.C.	UNF.F.
R253	UNF.C.	UNF.F.

Notes:

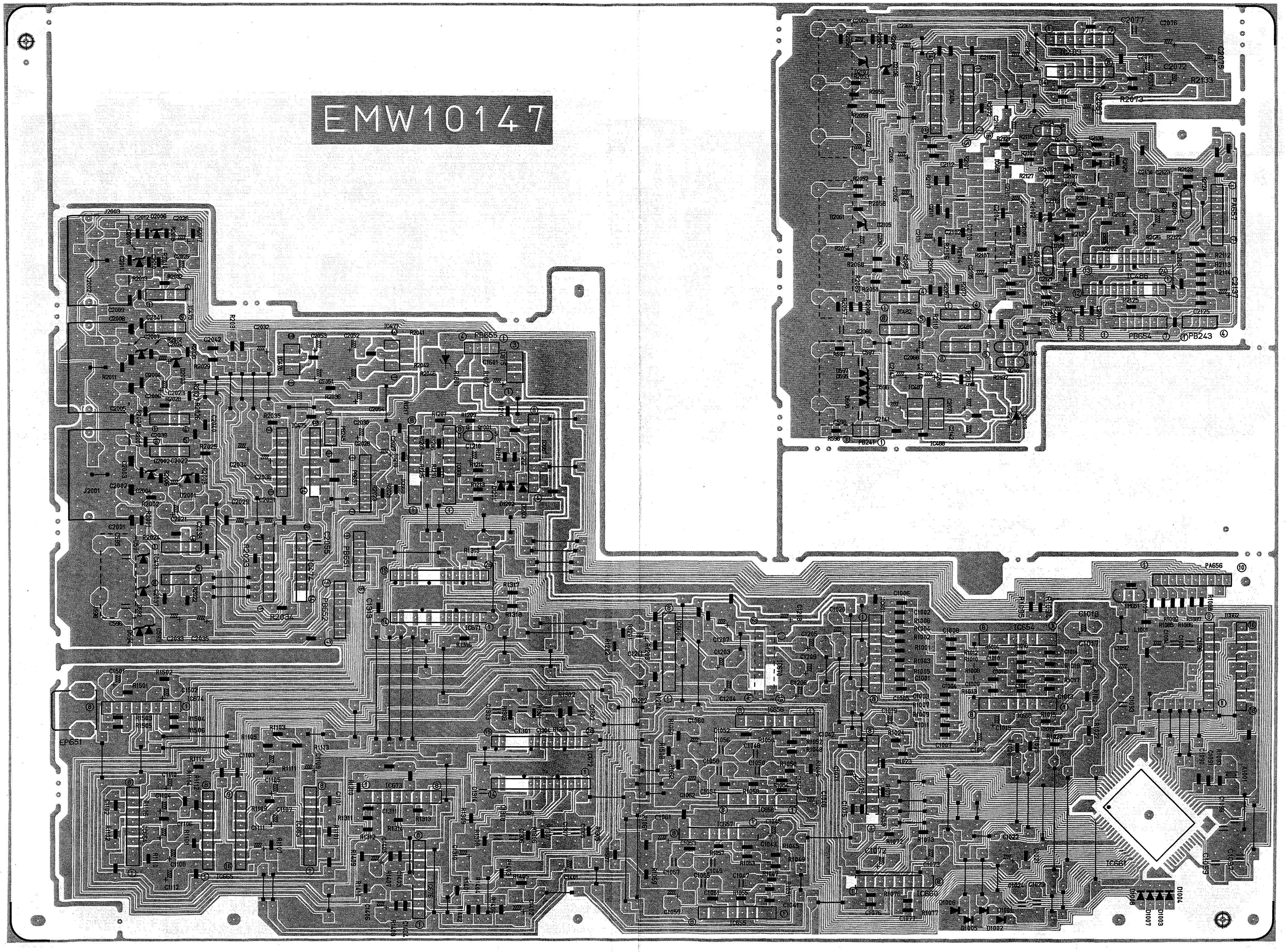
1. ——— indicates +B power supply.
2. - - - - - indicates −B power supply.
3. ▬ indicates main signal path.
4. ▪ ▪ ▪ ▪ ▪ indicates surround signal path.
5. ▬ shows DC voltage to the chassis with no signal input.
6. When replacing the parts in the shaded area (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety.
   This is the standard circuit diagram.
7. The design and contents are subject to change without notice.


I
J
K
L
M
N
O
P
Q
R
S
ENC-090-1
IC301 VC4580LD
MM EQ.
SEA
RA501 470KX7
RA502
f1 63Hz
f2 160Hz
f3 400Hz
f4 1KHz
f5 2.5KHz
f6 6.3KHz
f7 16KHz
IC501 LA3607S
IC502
IC504 LC7522
IC503 VC4580LD
SEA DI
SEA CLK
D502 MTZ6.8JC
D501 MTZ6.8JC
PA304
FROM ENH-182-2 (PB304)
FW103
TO ENA-089 (P103)
PA303
PB303
FROM ENP-039-2 (PB243)
PA243
PA305
TO END-080-1 (PA834)
PB305
PB834
PA403
FROM ENC-090-2 (PB403)
IC291 TC74HC595AP
REAR LEVEL
IC232 VC4580L
IC231 TC9176P
CENTER LEVEL
IC222 VC4580L
IC221 TC9176P
REAR R
REAR L
FROM ENP-039-1 (PB652)
PA652
Q251 DTA114Y
Q252 DTC144E
Q231 2SK301 (P, Q)
Q233 2SK301 (P, Q)
Q232
Q234
Q221 2SK301 (P, Q)
Q222 2SK301 (P, Q)
Q262
Q261 2SK301 (P, Q)
SIGNAL
MONO MIXING
IC261 μPC324C
FRONT VOLUME
IC212 VC4580LD
IC211 TC9177P
Q211
Q212
Q213
Q214
Q215 DTA114Y
Q216 DTC144E
Q211-214: 2SK301 (P, Q)
PB302
FRONT R
FRONT L
FROM ENC-090-1 (PA302)
PH. VOL MUTE
+16V
-16V
SEA DI
SEA CLK
CLK
DATA
STB1
STB2
STB3
RCK
INH
V2
V1
DAP/DOLBY
μCom 5V
POWER ON
POWER OFF
μCom GND
TV CONT
TV OUT
VCR IN
VCR OUT
S2
S1

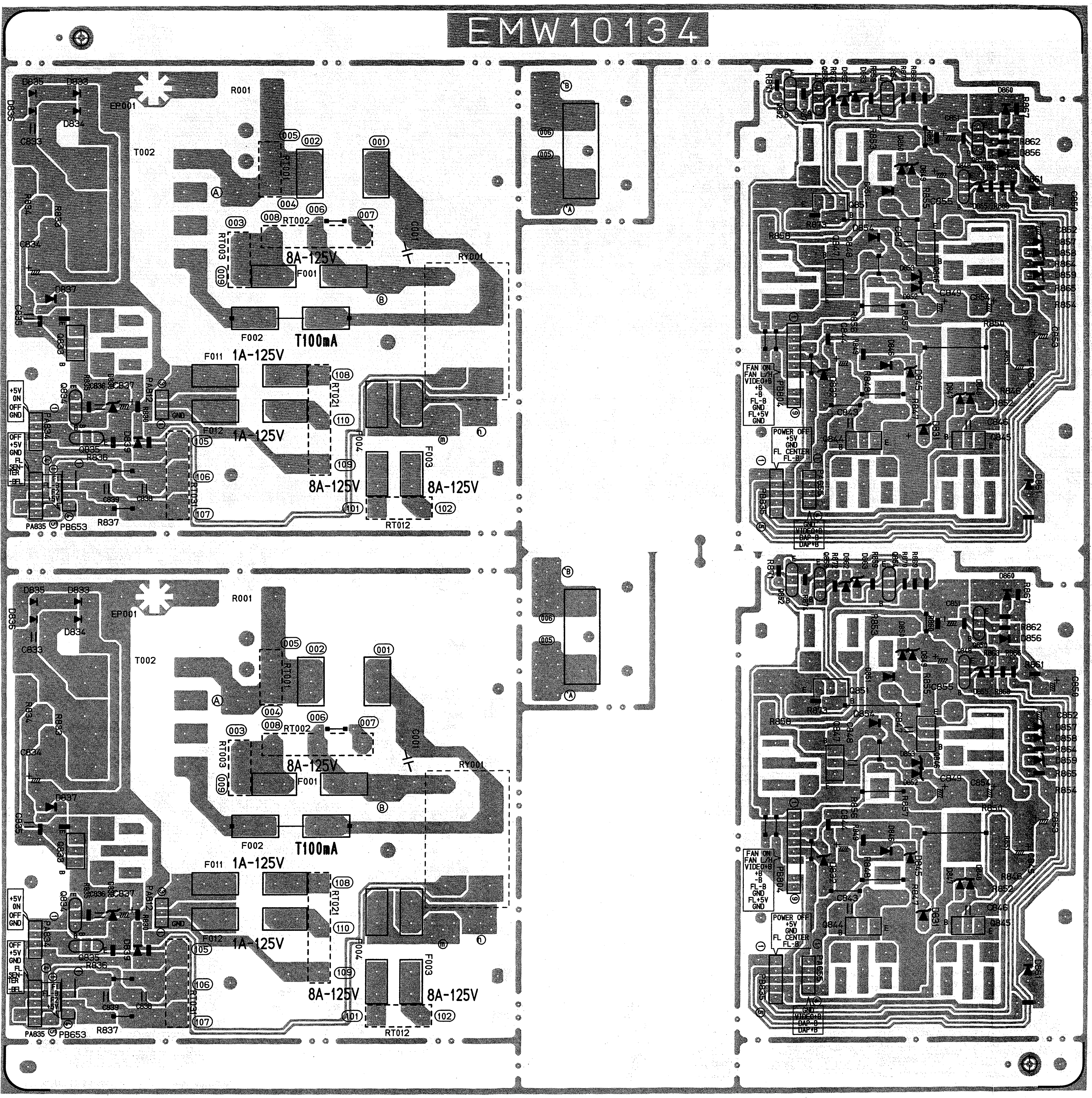
■ Source Selector, SEA & System Control (ENC-090)



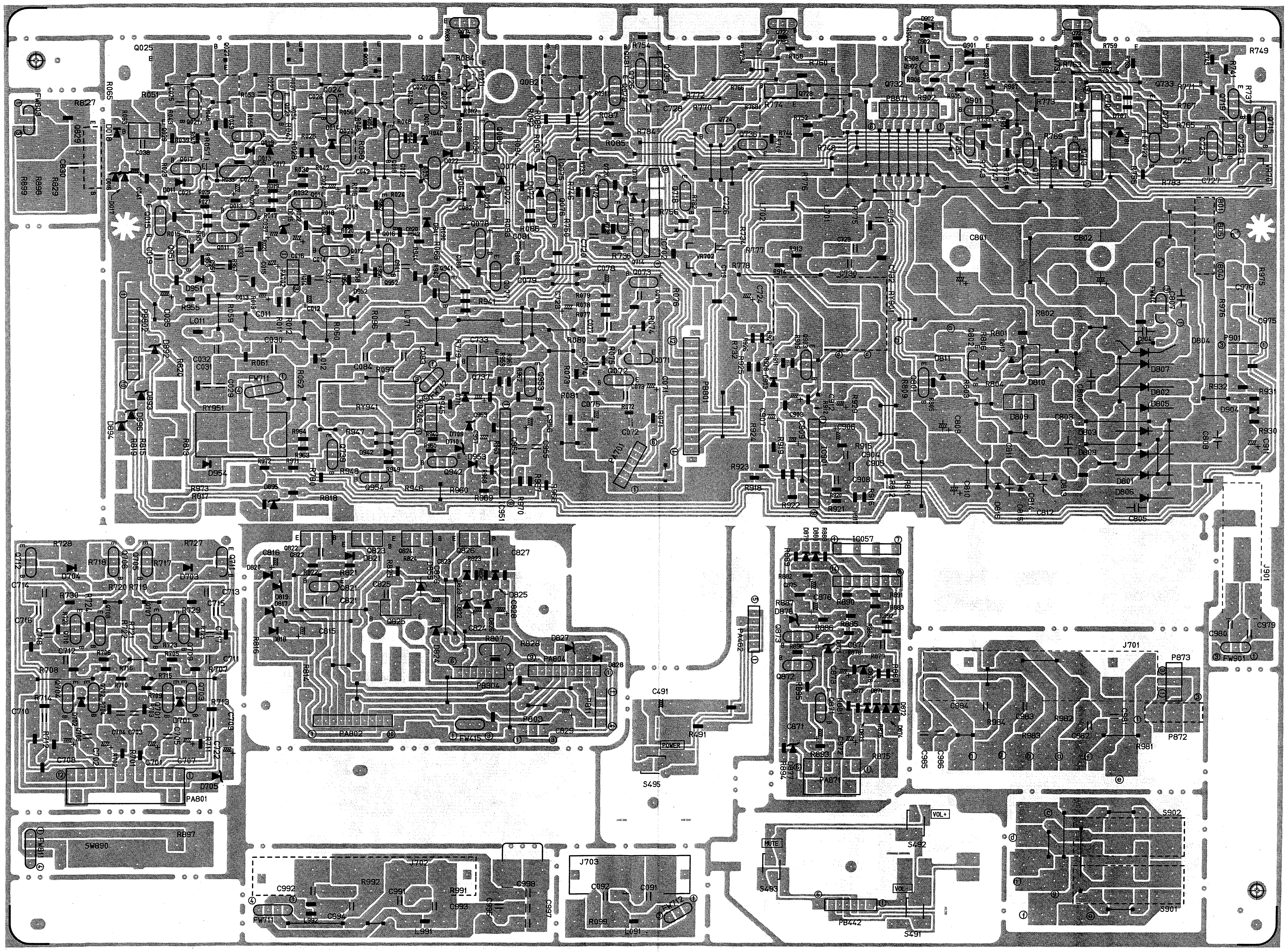
■ Video Selecttor & DAP P.C. Board (ENP-039)


EMW10147
J2003
J2001
EP651
PB655
PB654
PB243
PB241
PA657
PA656
PB652
IC481
IC482
IC486
IC654
IC661
IC656
IC655
IC658
IC660
D1001
D1002
D1003
D1004
D1005
D1006
D1007
R2073
R2133
C2077
C2072

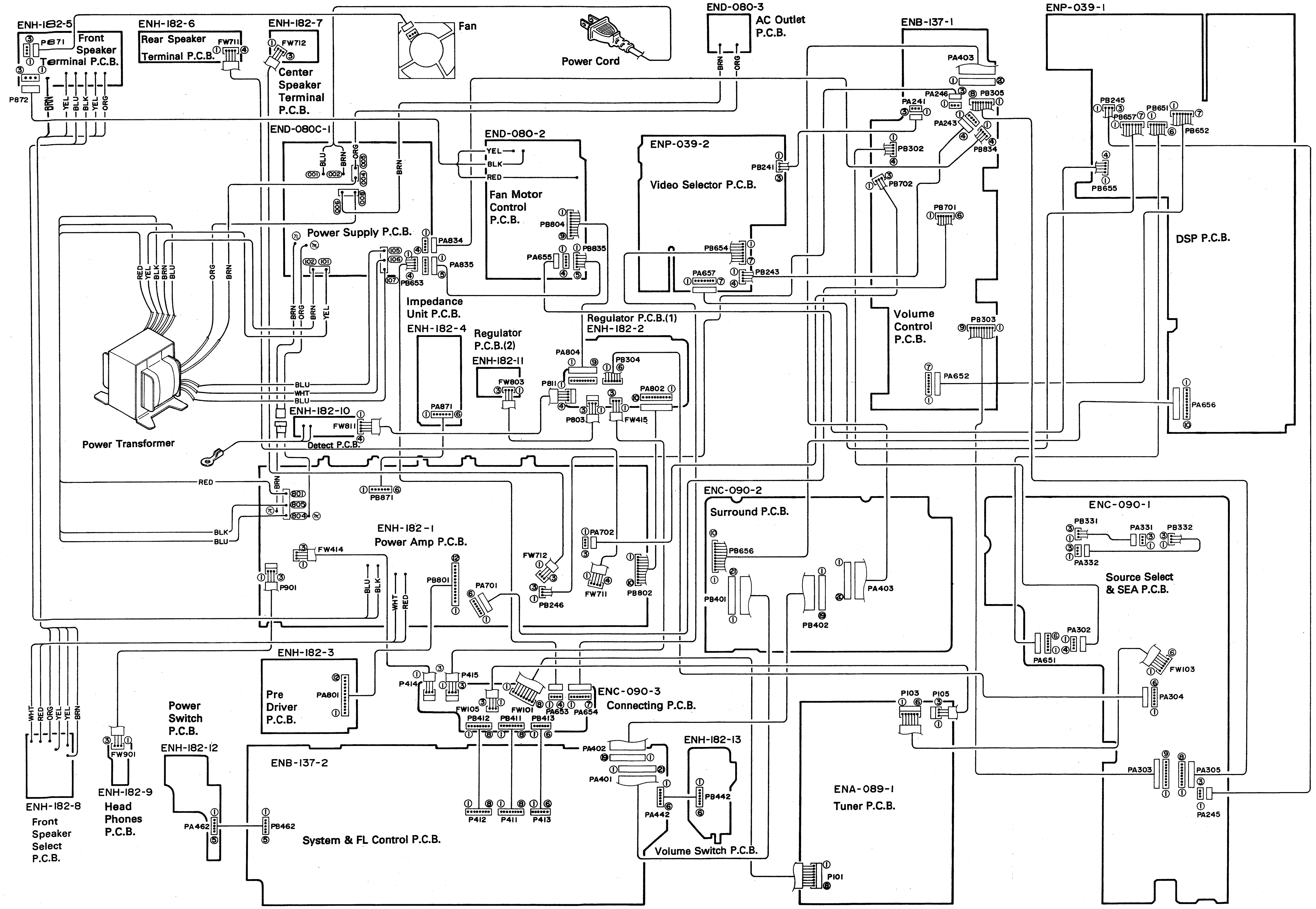
■ Power Supply P.C. Board (END-080)


EMW10134
T100mA
1A-125V
8A-125V
F001
F002
F003
F011
F012
T002
R001
EP001
RT002
RT003
RT012
RT021
RY001
C001
PA835
PB653
R837
FAN ON
POWER OFF

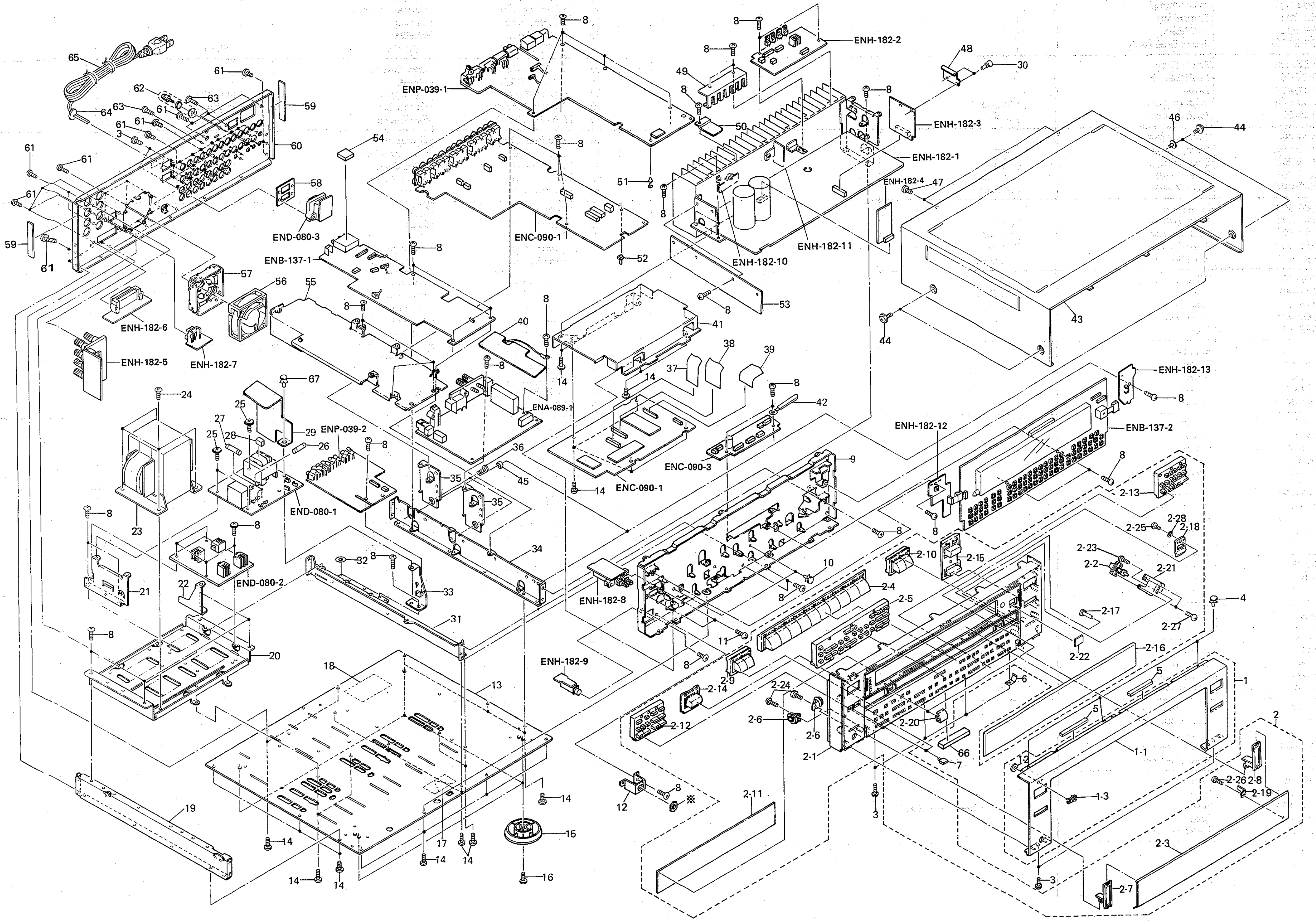
■ Power Amplifier P.C. Board (ENH-182)


Q025
R065
R051
R627
FW609
D010
D011
Q015
Q019
R955
L011
C030
R061
C032
C031
R620
D592
PB902
RY951
D594
D596
R619
R615
R613
D954
R973
R617
D695
R616
FW711
RY941
R947
R948
R946
R960
R969
C951
R970
R966
C733
C737
Q953
D953
Q942
Q954
R084
Q082
R087
R085
R088
C079
C075
C072
Q073
Q071
Q072
R080
R081
P4701
R754
R772
R770
C726
R774
R750
R756
R758
R768
R736
L701
L702
R778
R777
VR702
PB801
C730
R913
R914
R923
R924
R918
R922
R521
C908
C904
C905
R915
IC901
C909
C907
R912
Q732
PB871
R902
Q901
Q902
R773
R769
R749
Q733
R771
R767
R765
C725
C727
R783
C801
C802
R976
C976
C975
P901
R932
R931
D904
R930
C911
C908
D804
D807
D802
D805
D803
D808
D801
D806
C805
C812
C810
D816
D815
D814
D813
R801
R802
R803
R804
D811
D810
D809
R809
C809
C803
R728
R727
R718
R717
D704
D703
C714
C713
R720
R719
R730
R729
C715
C716
C718
C712
R722
R721
R705
R723
C711
R708
R716
R715
R707
R714
R713
C710
C709
C708
C707
C722
R702
R701
D705
PA801
C816
D820
Q822
Q823
Q824
Q826
C827
R822
R821
D821
Q821
C825
C821
D825
C815
Q825
R816
D817
D818
D819
R810
D827
R829
R807
PA804
D828
PB804
P803
C829
PA802
FW415
PA462
C491
R491
POWER
S495
IC057
C871
C876
R887
R890
R893
R895
D876
C873
Q872
R875
R899
R894
PA871
R883
J901
C980
C979
FW901
J701
P873
P872
C984
R984
C983
R983
R982
C982
C981
R981
C985
C986
SW890
R897
FW811
J702
C992
R992
C991
R991
C993
C998
C997
C994
L992
L991
FW711
J703
C092
C091
R099
L091
VOL+
S492
MUTE
S493
VOL
PB442
S491
S902
S901

Connection Diagram


ENH-182-5
Front Speaker Terminal P.C.B.
PB71
P872
ENH-182-6
Rear Speaker Terminal P.C.B.
FW711
ENH-182-7
FW712
Center Speaker Terminal P.C.B.
Fan
Power Cord
END-080-3
AC Outlet P.C.B.
BRN
ORG
ENB-137-1
PA403
PA241
PA246
PB305
PA243
PB834
PB302
PB702
PB701
ENP-039-1
PB245
PB657
PB651
PB652
PB655
DSP P.C.B.
END-080C-1
Power Supply P.C.B.
PA834
PA835
PB653
END-080-2
YEL
BLK
RED
Fan Motor Control P.C.B.
PB804
PA655
PB835
ENP-039-2
Video Selector P.C.B.
PB241
PB654
PA657
PB243
Volume Control P.C.B.
PB303
PA652
PA656
Impedance Unit P.C.B.
ENH-182-4
PA871
Regulator P.C.B.(2)
ENH-182-11
FW803
Regulator P.C.B.(1)
ENH-182-2
PA804
PB304
P811
PB803
FW415
PA802
Power Transformer
BLU
WHT
ENH-182-10
FW811
Detect P.C.B.
PB871
ENH-182-1
Power Amp P.C.B.
FW414
P901
PB801
PA701
FW712
PA702
PB246
FW711
PB802
ENC-090-2
Surround P.C.B.
PB656
PB401
PB402
PA403
ENC-090-1
Source Select & SEA P.C.B.
PB331
PA331
PB332
PA332
PA302
PA651
FW103
PA304
ENH-182-3
Pre Driver P.C.B.
PA801
P414
P415
FW105
FW101
PA653
PA654
ENC-090-3
Connecting P.C.B.
PB412
PB411
PB413
PA402
PA401
ENH-182-13
PB442
PA442
Volume Switch P.C.B.
P103
P105
ENA-089-1
Tuner P.C.B.
P101
PA303
PA305
PA245
ENH-182-8
Front Speaker Select P.C.B.
FW901
ENH-182-9
Head Phones P.C.B.
Power Switch P.C.B.
ENH-182-12
PA462
PB462
ENB-137-2
System & FL Control P.C.B.
P412
P411
P413

General Exploded View and Parts List


65
64
63
62
61
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59
3
ENP-039-1
8
54
58
END-080-3
57
56
55
ENB-137-1
ENC-090-1
51
52
49
50
ENH-182-2
48
30
ENH-182-3
ENH-182-1
ENH-182-4
47
46
44
ENH-182-10
ENH-182-11
53
43
ENH-182-6
ENH-182-5
ENH-182-7
40
41
38
39
37
14
42
ENA-089-1
24
67
25
27
28
29
26
ENP-039-2
END-080-1
36
35
45
ENC-090-3
ENC-090-1
9
ENH-182-13
ENB-137-2
ENH-182-12
23
21
22
END-080-2
32
33
34
31
20
ENH-182-8
10
11
2-4
2-5
2-10
2-15
2-13
2-25
2-28
2-18
2-23
2-2
2-21
2-17
2-27
4
2-22
2-16
ENH-182-9
2-9
2-14
2-12
2-24
2-6
2-20
2-1
66
7
6
5
1
1-1
1-2
1-3
2
2-26
2-8
2-19
2-3
2-7
18
13
19
17
15
16
12
2-11
※

※ mark indicates attached part.

Parts List

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP–RX905VTNJ(S	Front Panel Ass'y	1		
	1-1	E102455-001	Front Panel	1		
	1-2	E60912-003	Speed Nut	1		
	1-3	E72968-001	JVC Mark	1		
	2	E102457-003SA	Front Base Ass'y	1		
	2-1	E102457-003	Front Base	1		
	2-2	E03820-006	Push Switch	1		
	2-3	E207141-001	Door	1		
	2-4	E207143-002	Push Button	1	Source	
	2-5	E207145-001	Push Button	1	SEA	
	2-6	E305654-002	Damper Ass'y	2		
	2-7	E307113-002	Door Hinge	1	Left	
	2-8	E307114-002	Door Hinge	1	Right	
	2-9	E307577-001	Push Button	1	Source	
	2-10	E307577-002	Push Button	1	Source	
	2-11	E307580-001	FL Screen	1		
	2-12	E307581-001	Push Button	1	DAP	
	2-13	E307582-001	Push Button	1	Preset	
	2-14	E307583-001	Push Button	1	Power	
	2-15	E307585-001	Push Button	1	Volume	
	2-16	E307702-003	Window Screen	1		
	2-17	E406134-008	Knock Pin	1	for Door	
	2-18	E406375-001	Leaf Spring	1	for Door	
	2-19	E406509-001	Earth Plate	1	Door	
	2-20	E406663-001	Cap	2		
	2-21	E406664-001	Bracket	1		
	2-22	E72436-006	Screen	1		
	2-23	SBSF3006Z	Screw	1		
	2-24	SBSF3008Z	Screw	2		
	2-25	SBSF3010N	Screw	1		
	2-26	SPSP2002Z	Screw	1	Door	
	2-27	SBST3006Z	Screw	2		
	2-28	WLS3000N	Washer	1		
	3	SDSG3008M	Screw	8		
	4	E48729-009	Plastic Rivet	3		
	5	EXO078006N30S02	Felt Spacer	2		
	6	E406508-001	Leaf Spring	1		
	7	E406334-001SS	Speaker Button	2		
	8	SBSG3008CC	Screw	44		
	9	E102459-002	Front Bracket	1		
	10	E48729-007	Plastic Rivet	2		
	11	SBST3006CC	Screw	2		
	12	E75471-001	Head Phone Bracket	1		
	13	E11647-002	Bottom Plate	1		
	14	SBSG3006CC	Screw	26		
	15	E406472-001	Foot Ass'y	4		
	16	SBST3008Z	Screw	4	for Foot	
	17	E70281-001	Caution Label	1		
	18	E74925-001	Dolby Sheet	1		
	19	E305167-002	Side Bracket	1	Left	
	20	E25914-002	Trans Bracket	1		
	21	E305208-001	Circuit Board Bracket	1		
	22	E406711-001	Bracket	1		
⚠	23	ETP1200-54JA	Power Transformer	1		
	24	E65389-005	Special Screw	4	for Transformer	
	25	GBSG3008CC	Screw	3		
⚠	26	QMF51U1-8R0S	Fuse	1	F001 (T8A/125V)	
⚠	27	QMF51U1-8R0S	Fuse	2	F003 , F004 (T8A/125V)	
	28	E306805-048	Spacer	1		
	29	E406945-001	Shield Bracket	1		

⚠: Safety Parts

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	30	E48729-008	Plastic Rivet	2		
	31	E305166-003	Center Bracket	1		
	32	E73967-010	Spacer	1		
	33	E74547-002	Bracket	1		
	34	E306251-001	Side Btacket	1	Right	
	35	E75472-003	Stay Bracket	2		
	36	SDSG3008CC	Screw	2		
	37	EWR1ME-44TT	Flat Cable	1	FW401	
	38	EWR1KE-47TT	Flat Cable	1	FW402	
	39	EWR1LE-59TT	Flat Cable	1	FW403	
	40	E406880-001	Shield Plate	1		
	41	E25915-002	D.AP Bracket	1		
	42	E72018-001	Wire Clamp	1		
	43	E12062-001	Metal Cover	1		
	44	E61660-004	Screw	4		
	45	E69559-011	Spacer	1		
	46	E69591-001	Spacer	1		
	47	SBSG3008M	Screw	2		
	48	E406949-001	Protector	1		
	49	E74550-001	Leaf Spring	1		
	50	E406948-001	Bracket	1		
	51	E406613-001	Fastener	1		
	52	E406084-001	Fastener	1		
	53	E74832-001	Protect Sheet	1		
	54	E3400-431	Spacer	1		
	55	E207146-001	Shield Bracket	1		
	56	FBA06A24H1DS	DC Fan	1		
	57	E306248-002	Fan Plate	1		
	58	E69589-008	Plastic Rivet	1		
	59	EXO085010R10S	Spacer	2		
	60	E102460-008	Rear Panel	1		
	61	E73273-006	Special Screw	37		
	62	E70078-003	GND. Terminal	1		
	63	SBST3006M	Screw	4n		
⚠	64	QHS3876-162	Cord Stopper	1		
⚠	65	QMP1D00-200H	Power Cord	1		
	66	EXO080007R50S13	Spacer	1		
	67	E48729-020	Plastic Rivet	1		
	—	E61029-004	Number Label	1		
	—	E67199-001	Caution Label	1		
	—	QZL1001-001	UL Label	1		

⚠: Safety Parts

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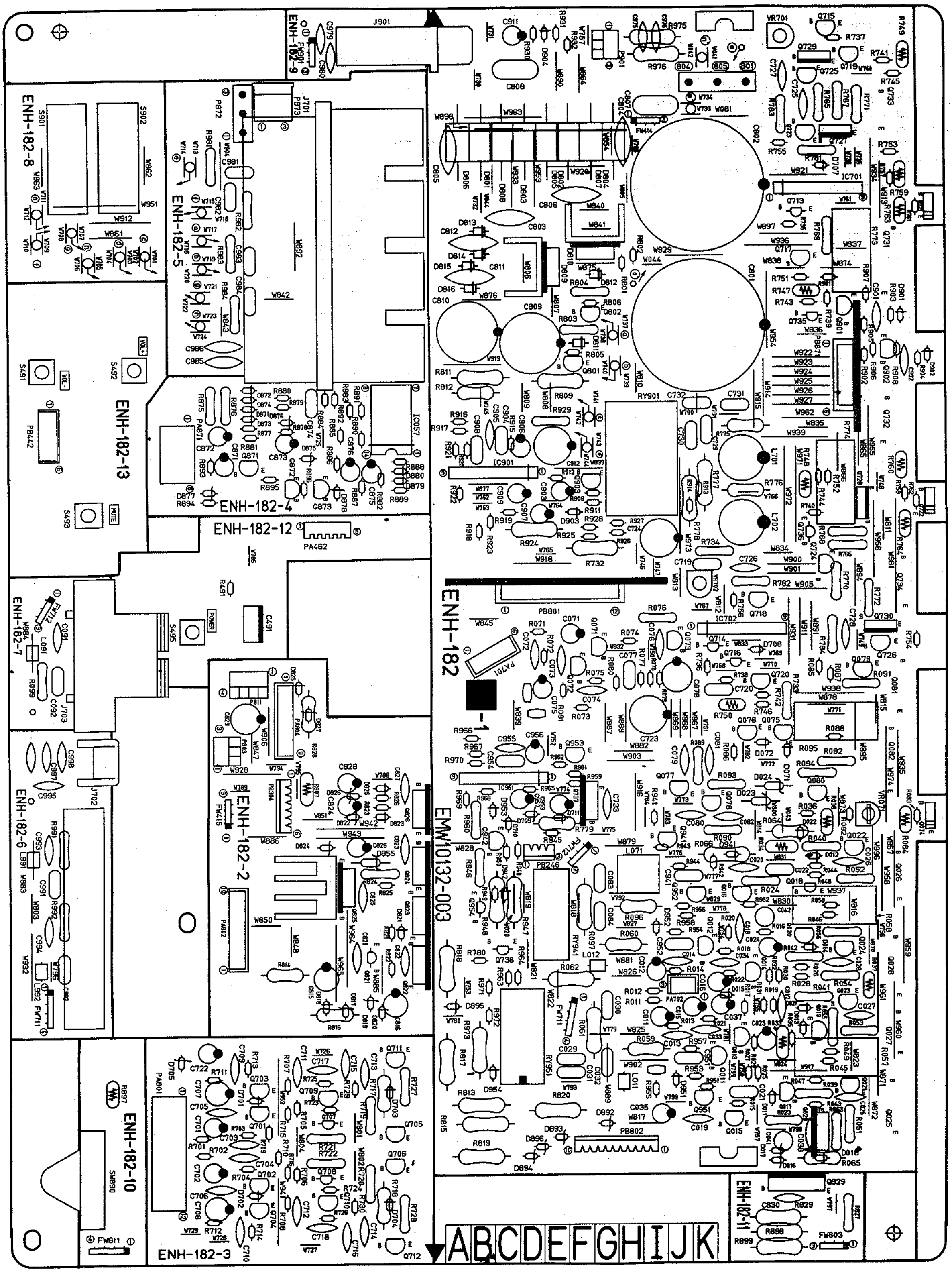
Printed Circuit Board Ass'y and Parts List

■ENH-182 H Power Amplifier PC Board Ass'y


ENH-182
EMW10132-003
ENH-182-2
ENH-182-3
ENH-182-4
ENH-182-5
ENH-182-6
ENH-182-7
ENH-182-8
ENH-182-9
ENH-182-10
ENH-182-11
ENH-182-12
ENH-182-13
A B C D E F G H I J K
J901
IC901
IC701
IC702
RY901
RY941
RY951
POWER
MUTE
VOL-
VOL+

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q011	2SC2389(S)	SILICON ROHM	
	Q012	2SC2389(S)	SILICON ROHM	
	Q013	2SC2389(S)	SILICON ROHM	
	Q014	2SC2389(S)	SILICON ROHM	
	Q015	2SA1038(S,E)	SILICON ROHM	
	Q016	2SA1038(S,E)	SILICON ROHM	
	Q017	2SC945A(P,Q)	SILICON NEC	
	Q018	2SC945A(P,Q)	SILICON NEC	
	Q019	2SA733A(P,Q)	SILICON NEC	
	Q020	2SA733A(P,Q)	SILICON NEC	
	Q021	2SC2235(O,Y)	SILICON TOSHIBA	
	Q022	2SC2235(O,Y)	SILICON TOSHIBA	
	Q023	2SA965(O,Y)	SILICON TOSHIBA	
	Q024	2SA965(O,Y)	SILICON TOSHIBA	
	Q025	2SC3856LD(O,Y)	SILICON	
	Q026	2SC3856LD(O,Y)	SILICON	
	Q027	2SA1492LD(O,Y)	SILICON	
	Q028	2SA1492LD(O,Y)	SILICON	
	Q029	2SD2061(E,F)	SILICON ROHM	
	Q071	2SC2240(GR)	SILICON TOSHIBA	
	Q072	2SC2240(GR)	SILICON TOSHIBA	
	Q073	2SA1038(S,E)	SILICON ROHM	
	Q074	2SD636(Q,R)	SILICON MATSUSHITA	
	Q075	2SC945A(P,Q)	SILICON NEC	
	Q076	2SA733A(P,Q)	SILICON NEC	
	Q077	2SC2389(E)	SILICON ROHM	
	Q078	2SA1038(E)	SILICON ROHM	
	Q079	2SC2235(O,Y)	SILICON TOSHIBA	
	Q080	2SA965(O,Y)	SILICON TOSHIBA	
	Q081	2SC3856LD(O,Y)	SILICON	
	Q082	2SA1492LD(O,Y)	SILICON	
	Q701	2SC2240(A,B)	SILICON TOSHIBA	
	Q702	2SC2240(A,B)	SILICON TOSHIBA	
	Q703	2SC2240(A,B)	SILICON TOSHIBA	
	Q704	2SC2240(A,B)	SILICON TOSHIBA	
	Q705	2SA1038(S,E)	SILICON ROHM	
	Q706	2SA1038(S,E)	SILICON ROHM	
	Q707	2SA933LN(R,S)	SILICON ROHM	
	Q708	2SA933LN(R,S)	SILICON ROHM	
	Q709	2SA1038(S,E)	SILICON ROHM	
	Q710	2SA1038(S,E)	SILICON ROHM	
	Q711	2SC2389(S,E)	SILICON ROHM	
	Q712	2SC2389(S,E)	SILICON ROHM	
	Q713	2SC1740(R,S)	SILICON ROHM	
	Q714	2SC1740(R,S)	SILICON ROHM	
	Q715	2SA933LN(R,S)	SILICON ROHM	
	Q716	2SA933LN(R,S)	SILICON ROHM	
	Q717	2SC2389(S,E)	SILICON ROHM	
	Q718	2SC2389(S,E)	SILICON ROHM	
	Q719	2SA1038(S,E)	SILICON ROHM	
	Q720	2SA1038(S,E)	SILICON ROHM	
	Q721	2SD636(Q,R)	SILICON MATSUSHITA	
	Q722	2SD636(Q,R)	SILICON MATSUSHITA	
	Q723	2SC2389(S)	SILICON ROHM	
	Q724	2SC2389(S)	SILICON ROHM	
	Q725	2SA1038(S)	SILICON	
	Q726	2SA1038(S)	SILICON	
	Q727	2SD669A(B,C)	SILICON HITACHI	
	Q728	2SD669A(B,C)	SILICON HITACHI	
	Q729	2SB649A(B,C)	SILICON HITACHI	
	Q730	2SB649A(B,C)	SILICON HITACHI	
	Q731	2SC3858LG(Y,P,G	SILICON SANKEN	
	Q732	2SC3858LG(Y,P,G	SILICON SANKEN	
	Q733	2SA1494LG(Y,P,G	SILICON SANKEN	
	Q734	2SA1494LG(Y,P,G	SILICON SANKEN	
	Q735	DTC144ES	SILICON ROHM	
	Q736	DTC144ES	SILICON ROHM	
	Q737	2SD2061(E,F)	SILICON ROHM	
	Q738	DTC144ES	SILICON ROHM	
	Q801	2SA1038(S,E)	SILICON ROHM	
	Q802	2SC2389(S,E)	SILICON ROHM	
	Q821	2SA933LN(R,S)	SILICON ROHM	
	Q822	2SB1133(R,S)	SILICON SANYO	
	Q823	2SD1666(R,S)	SILICON SANYO	
	Q824	2SD1944(J,K)	SILICON ROHM	
	Q825	2SD1944(J,K)	SILICON ROHM	
	Q826	2SD1944(J,K)	SILICON ROHM	
	Q829	2SC3853V(O,Y)	SILICON SANKEN	
	Q871	2SA1038(S,E)	SILICON ROHM	
	Q872	2SC2389(S,E)	SILICON ROHM	
	Q873	2SC2389(S,E)	SILICON ROHM	
	Q901	2SC2389(S,E)	SILICON ROHM	
	Q902	2SC2389(S,E)	SILICON ROHM	
	Q903	2SA1038(S,E)	SILICON ROHM	
	Q941	2SC2389(S,E)	SILICON ROHM	
	Q942	2SC2240(GR,BL)	SILICON TOSHIBA	
	Q951	2SC2389(S,E)	SILICON ROHM	
	Q952	2SC2389(S,E)	SILICON ROHM	
	Q953	2SA1038(S,E)	SILICON ROHM	
	Q954	DTC143TS	SILICON ROHM	

⚠ : SAFETY PARTS

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC057	AN6912	I.C. MATSUSHITA	
	IC701	VC5022-2	I.C. SANYO	
	IC702	VC5022-2	I.C. SANYO	
	IC901	TA7317P	I.C. TOSHIBA	
	IC951	TA7317P	I.C. TOSHIBA	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D011	1SS133	SILICON ROHM	
	D012	1SS133	SILICON ROHM	
	D013	1SS133	SILICON ROHM	
	D014	1SS133	SILICON ROHM	
	D015	MTZ18JC	ZENER ROHM	
	D016	MTZ11JC	ZENER ROHM	
	D017	MTZ16JC	ZENER ROHM	
	D018	1SS133	SILICON ROHM	
	D021	1SS133	SILICON ROHM	
	D022	1SS133	SILICON ROHM	
	D023	MTZ24JC	ZENER ROHM	
	D024	MTZ24JC	ZENER ROHM	
	D071	1SS133	SILICON ROHM	
	D072	1SS133	SILICON ROHM	
	D701	1SS133	SILICON ROHM	
	D702	1SS133	SILICON ROHM	
	D703	1SS133	SILICON ROHM	
	D704	1SS133	SILICON ROHM	
	D705	MTZ18JC	ZENER ROHM	
	D707	1SS133	SILICON ROHM	
	D708	1SS133	SILICON ROHM	
	D709	MTZ18JC	ZENER ROHM	
	D710	MTZ18JC	ZENER ROHM	
	D711	1SS133	SILICON ROHM	
	D801	30DF2SFC	SILICON NIHONINTER	
	D802	30DF2SFC	SILICON NIHONINTER	
	D803	30DF2SFC	SILICON NIHONINTER	
	D804	30DF2SFC	SILICON NIHONINTER	
	D805	30DF2SFC	SILICON NIHONINTER	
	D806	30DF2SFC	SILICON NIHONINTER	
	D807	30DF2SFC	SILICON NIHONINTER	
	D808	30DF2SFC	SILICON NIHONINTER	
	D809	SF8D41	THYRISTOR TOSHIBA	
	D810	SF8D41	THYRISTOR TOSHIBA	
⚠	D811	ERA15-02L19	SILICON KYOUDOU	
⚠	D812	ERA15-02L19	SILICON KYOUDOU	
	D813	EM01Z	SI.DIODE	
	D814	EM01Z	SI.DIODE	
	D815	EM01Z	SI.DIODE	
	D816	EM01Z	SI.DIODE	
	D817	MTZ16JC	ZENER ROHM	
	D818	1SS133	SILICON ROHM	
	D819	MTZ16JC	ZENER ROHM	
	D820	1SS133	SILICON ROHM	
	D821	1SS133	SILICON ROHM	
	D822	MTZ16JC	ZENER ROHM	
	D823	1SS133	SILICON ROHM	
	D824	MTZ6.2JC	ZENER ROHM	
	D825	1SS133	SILICON ROHM	
	D826	MTZ15JC	ZENER ROHM	
	D827	MTZ13JC	ZENER ROHM	
	D828	1SS133	SILICON ROHM	
	D871	1SS133	SILICON ROHM	
	D872	1SS133	SILICON ROHM	
	D873	1SS133	SILICON ROHM	
	D874	1SS133	SILICON ROHM	
	D875	MTZ2.7JB	ZENER ROHM	
	D876	MTZ11JC	ZENER ROHM	
	D877	MTZ15JC	ZENER ROHM	
	D878	MTZ6.2JC	ZENER ROHM	
	D879	1SS133	SILICON ROHM	
	D880	1SS133	SILICON ROHM	
	D901	1SS133	SILICON ROHM	
	D902	1SS133	SILICON ROHM	
	D903	1SS133	SILICON ROHM	
	D904	1SS147	SILICON ROHM	
	D941	1SS133	SILICON ROHM	
	D942	MTZ12JC	ZENER ROHM	
	D951	1SS133	SILICON ROHM	
	D952	1SS133	SILICON ROHM	
	D953	1SS133	SILICON ROHM	
	D954	MTZ24JC	ZENER ROHM	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C011	QETB1HM-475	4.7MF 50V ELECTRO	
	C012	QETB1HM-475	4.7MF 50V ELECTRO	
	C013	QCS21HJ-101	100PF 50V CERAMIC	
	C014	QCS21HJ-101	100PF 50V CERAMIC	
	C015	QETB1CM-476	47MF 16V ELECTRO	
	C016	QETB1CM-476	47MF 16V ELECTRO	
	C017	QCS21HJ-5R0	5PF 50V CERAMIC	
	C018	QCS21HJ-5R0	5PF 50V CERAMIC	
	C019	QCS21HJ-330	33PF 50V CERAMIC	
	C020	QCS21HJ-330	33PF 50V CERAMIC	
	C021	QFN81HK-103	0.01MF 50V MYLAR	
	C022	QFN81HK-103	0.01MF 50V MYLAR	
	C023	QEHC1HM-226	22MF 50V ELECTRO	
	C024	QEHC1HM-226	22MF 50V ELECTRO	
	C025	QCS22HJ-470A	47PF 500V CERAMIC	
	C026	QCS22HJ-470A	47PF 500V CERAMIC	
	C027	QCS22HJ-470A	47PF 500V CERAMIC	
	C028	QCS22HJ-470A	47PF 500V CERAMIC	
	C029	QFN81HK-223	0.022MF 50V MYLAR	
	C030	QFN81HK-223	0.022MF 50V MYLAR	
	C033	QCS21HJ-101	100PF 50V CERAMIC	
	C034	QCS21HJ-101	100PF 50V CERAMIC	
	C035	QEHC1HM-226	22MF 50V ELECTRO	
	C037	QETB1EM-106	10MF 25V ELECTRO	
	C038	QCF21HP-472	4700PF 50V CERAMIC	
	C041	QETB1HM-225	2.2MF 50V ELECTRO	
	C042	QETB1HM-225	2.2MF 50V ELECTRO	
	C071	QETB1HM-106	10MF 50V ELECTRO	
	C072	QCS21HJ-271	270PF 50V CERAMIC	
	C073	QCS21HJ-101	100PF 50V CERAMIC	
	C074	QCS21HJ-5R0	5PF 50V CERAMIC	
	C075	QETB1CM-476	47MF 16V ELECTRO	
	C076	QCS21HJ-330	33PF 50V CERAMIC	
	C077	QFN81HK-103	0.01MF 50V MYLAR	
	C078	QETB1JM-476	47MF 63V ELECTRO	
	C079	QCS22HJ-470A	47PF 500V CERAMIC	
	C080	QCS22HJ-470A	47PF 500V CERAMIC	
	C081	QCF21HP-473	0.047MF 50V CERAMIC	
	C082	QCF21HP-473	0.047MF 50V CERAMIC	
	C083	QFN81HK-223	0.022MF 50V MYLAR	
	C491	QEAD0HZ-479A	47000MF ELECTRO	
	C701	EETB1HM-106E	10MF 50V ELECTRO	
	C702	EETB1HM-106E	10MF 50V ELECTRO	
	C703	QCS21HJ-271	270PF 50V CERAMIC	
	C704	QCS21HJ-271	270PF 50V CERAMIC	
	C705	QCS21HJ-101	100PF 50V CERAMIC	
	C706	QCS21HJ-101	100PF 50V CERAMIC	
	C707	EETB1CM-107E	100MF 16V ELECTRO	
	C708	EETB1CM-107E	100MF 16V ELECTRO	
	C709	QCS21HJ-5R0	5PF 50V CERAMIC	
	C710	QCS21HJ-5R0	5PF 50V CERAMIC	
	C711	QCY21HK-102	1000PF 50V CERAMIC	
	C712	QCY21HK-102	1000PF 50V CERAMIC	
	C713	QCS21HJ-680	68PF 50V CERAMIC	
	C714	QCS21HJ-680	68PF 50V CERAMIC	
	C715	QCS21HJ-680	68PF 50V CERAMIC	
	C716	QCS21HJ-680	68PF 50V CERAMIC	
	C717	QCS22HJ-220	22PF 500V CERAMIC	
	C718	QCS22HJ-220	22PF 500V CERAMIC	
	C719	QFN81HK-472	4700PF 50V MYLAR	
	C720	QFN81HK-472	4700PF 50V MYLAR	
	C722	EETB1CM-107E	100MF 16V ELECTRO	
	C723	QEHB2AM-476	47MF 100V ELECTRO	
	C724	QEHB2AM-476	47MF 100V ELECTRO	
	C725	QCS22HJ-470A	47PF 500V CERAMIC	
	C726	QCS22HJ-470A	47PF 500V CERAMIC	
	C727	QCS22HJ-470A	47PF 500V CERAMIC	
	C728	QCS22HJ-470A	47PF 500V CERAMIC	
	C729	QFN81HK-223	0.022MF 50V MYLAR	
	C730	QFN81HK-223	0.022MF 50V MYLAR	
	C733	QCF21HP-472	4700PF 50V CERAMIC	
	C801	EEW8002-129T	12000MF ELECTRO	
	C802	EEW8002-129T	12000MF ELECTRO	
	C803	QCE22HP-103	0.01MF 500V CERAMIC	
	C804	QCE22HP-103	0.01MF 500V CERAMIC	
	C805	QCE22HP-103	0.01MF 500V CERAMIC	
	C806	QCE22HP-103	0.01MF 500V CERAMIC	
	C807	QFN82CK-104	0.1MF 160V MYLAR	
	C808	QFN82CK-104	0.1MF 160V MYLAR	
	C809	QETB1HM-108E	1000MF 50V ELECTRO	
	C810	QETB1HM-108E	1000MF 50V ELECTRO	
	C811	QCE22HP-103	0.01MF 500V CERAMIC	
	C812	QCE22HP-103	0.01MF 500V CERAMIC	
	C815	QEHC1EM-107	100MF 25V ELECTRO	
	C816	QEHC1EM-107	100MF 25V ELECTRO	
	C821	QCF21HP-472	4700PF 50V CERAMIC	
	C822	QCF21HP-472	4700PF 50V CERAMIC	
	C823	QCF21HP-472	4700PF 50V CERAMIC	
	C824	QEHC1HM-226	22MF 50V ELECTRO	
	C825	QCF21HP-472	4700PF 50V CERAMIC	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C826	QEHC1HM-226	22MF 50V ELECTRO	
	C827	QCF21HP-472	4700PF 50V CERAMIC	
	C828	QEHC1HM-226	22MF 50V ELECTRO	
	C829	QETB1HM-107	100MF 50V ELECTRO	
	C830	QCF21HP-472	4700PF 50V CERAMIC	
	C871	QETB1HM-226	22MF 50V ELECTRO	
	C872	QETB2AM-225	2.2MF 100V ELECTRO	
	C873	QEHB2AM-105	1MF 100V ELECTRO	
	C874	QFV81HJ-104	0.1MF 50V T.FILM	
	C875	QEHC1EM-476	47MF 25V ELECTRO	
	C876	QEHC1HM-225	2.2MF 50V ELECTRO	
	C901	QCF21HP-223	0.022MF 50V CERAMIC	
	C902	QCF21HP-223	0.022MF 50V CERAMIC	
	C903	QETB1EM-226	22MF 25V ELECTRO	
	C904	QCF21HP-103	0.01MF 50V CERAMIC	
	C905	QCY21HK-102	1000PF 50V CERAMIC	
	C906	QETB1AM-476	47MF 10V ELECTRO	
	C907	QETB1HM-474	0.47MF 50V ELECTRO	
	C908	QFN81HK-153	0.015MF 50V MYLAR	
	C909	QETB1CM-226	22MF 16V ELECTRO	
	C911	QETB1HM-225	2.2MF 50V ELECTRO	
	C912	QETB1HM-227	220MF 50V ELECTRO	
	C941	QCF21HP-223	0.022MF 50V CERAMIC	
	C951	QCF21HP-223	0.022MF 50V CERAMIC	
	C952	QCF21HP-223	0.022MF 50V CERAMIC	
	C953	QETB1HM-226	22MF 50V ELECTRO	
	C954	QFN81HK-223	0.022MF 50V MYLAR	
	C955	QCY21HK-102	1000PF 50V CERAMIC	
	C956	QETB1AM-476	47MF 10V ELECTRO	
	C957	QETB1CM-226	22MF 16V ELECTRO	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R011	QRD167J-222	2.2K 1/6W CARBON	
	R012	QRD167J-222	2.2K 1/6W CARBON	
	R013	QRD167J-104	100K 1/6W CARBON	
	R014	QRD167J-104	100K 1/6W CARBON	
	R015	QRD167J-202	2K 1/6W CARBON	
	R016	QRD167J-202	2K 1/6W CARBON	
	R017	QRD167J-133	13K 1/6W CARBON	
	R018	QRD167J-133	13K 1/6W CARBON	
	R019	QRD167J-104	100K 1/6W CARBON	
	R020	QRD167J-104	100K 1/6W CARBON	
	R021	QRD167J-302	3K 1/6W CARBON	
	R022	QRD167J-302	3K 1/6W CARBON	
⚠	R023	QRD14CJ-181S	180 1/4W UNF.CARBON	
⚠	R024	QRD14CJ-181S	180 1/4W UNF.CARBON	
	R025	QRD167J-123	12K 1/6W CARBON	
	R026	QRD167J-123	12K 1/6W CARBON	
	R027	QRD167J-123	12K 1/6W CARBON	
	R028	QRD167J-123	12K 1/6W CARBON	
	R029	QRD167J-272	2.7K 1/6W CARBON	
	R030	QRD167J-272	2.7K 1/6W CARBON	
	R031	QRD167J-272	2.7K 1/6W CARBON	
	R032	QRD167J-272	2.7K 1/6W CARBON	
	R033	SDT250	NEGATIVE T	HE
	R034	SDT250	NEGATIVE T	HE
	R035	QRD167J-511	510 1/6W CARBON	
	R036	QRD167J-511	510 1/6W CARBON	
	R037	SDT250	NEGATIVE T	HE
	R038	SDT250	NEGATIVE T	HE
⚠	R039	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R040	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R041	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R042	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R043	QRD167J-331	330 1/6W CARBON	
	R044	QRD167J-331	330 1/6W CARBON	
	R045	QRD167J-331	330 1/6W CARBON	
	R046	QRD167J-331	330 1/6W CARBON	
	R047	QRD167J-151	150 1/6W CARBON	
	R048	QRD167J-151	150 1/6W CARBON	
	R049	QRD167J-151	150 1/6W CARBON	
	R050	QRD167J-151	150 1/6W CARBON	
⚠	R051	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R052	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R053	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R054	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R055	QRD14CJ-271S	270 1/4W UNF.CARBON	
⚠	R056	QRD14CJ-271S	270 1/4W UNF.CARBON	
⚠	R057	ERF032K-R22	0.22 3W CEMENT	
⚠	R058	ERF032K-R22	0.22 3W CEMENT	
⚠	R059	QRD125J-330	33 1/2W UNF.CARBON	
⚠	R060	QRD125J-330	33 1/2W UNF.CARBON	
⚠	R061	QRG022J-100A	10 2W O.M.FILM	
⚠	R062	QRG022J-100A	10 2W O.M.FILM	
⚠	R063	QRD14CJ-101S	100 1/4W UNF.CARBON	
⚠	R064	QRG012J-102A	1K 1W O.M.FILM	
⚠	R065	QRD125J-822	8.2K 1/2W UNF.CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R066	QRG022J-222A	2.2K	2W	O.M.FILM	
	R071	QRD167J-222	2.2K	1/6W	CARBON	
	R072	QRD167J-104	100K	1/6W	CARBON	
	R073	QRD167J-133	13K	1/6W	CARBON	
	R074	QRD167J-202	2K	1/6W	CARBON	
	R075	QRD167J-104	100K	1/6W	CARBON	
⚠	R076	QRD14CJ-181S	180	1/4W	UNF.CARBON	
	R077	QRD167J-123	12K	1/6W	CARBON	
	R078	QRD167J-123	12K	1/6W	CARBON	
⚠	R079	QRV144F-2701	2.7K	1/4W	M.FILM	
⚠	R080	QRV144F-2701	2.7K	1/4W	M.FILM	
	R081	QRD167J-302	3K	1/6W	CARBON	
	R082	QRD167J-152	1.5K	1/6W	CARBON	
	R083	QRD167J-391	390	1/6W	CARBON	
	R084	SDT250			NEGATIVE T	HE
	R085	QRD167J-221	220	1/6W	CARBON	
	R086	QRD167J-221	220	1/6W	CARBON	
	R087	QRD167J-271	270	1/6W	CARBON	
	R088	QRD167J-271	270	1/6W	CARBON	
⚠	R089	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R090	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R091	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R092	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R093	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
⚠	R094	QRD14CJ-271S	270	1/4W	UNF.CARBON	
⚠	R095	ERF032K-R22	0.22	3W	CEMENT	
⚠	R096	QRD125J-330	33	1/2W	UNF.CARBON	
⚠	R097	QRG022J-100A	10	2W	O.M.FILM	
	R491	QRD167J-331	330	1/6W	CARBON	
	R701	QRD167J-222	2.2K	1/6W	CARBON	
	R702	QRD167J-222	2.2K	1/6W	CARBON	
	R703	QRD167J-104	100K	1/6W	CARBON	
	R704	QRD167J-104	100K	1/6W	CARBON	
	R705	QRD167J-202	2K	1/6W	CARBON	
	R706	QRD167J-202	2K	1/6W	CARBON	
	R707	QRD167J-202	2K	1/6W	CARBON	
	R708	QRD167J-202	2K	1/6W	CARBON	
	R709	QRD167J-822	8.2K	1/6W	CARBON	
	R710	QRD167J-822	8.2K	1/6W	CARBON	
	R711	QRD167J-152	1.5K	1/6W	CARBON	
	R712	QRD167J-152	1.5K	1/6W	CARBON	
	R713	QRD167J-104	100K	1/6W	CARBON	
	R714	QRD167J-104	100K	1/6W	CARBON	
	R715	QRD167J-101	100	1/6W	CARBON	
	R716	QRD167J-101	100	1/6W	CARBON	
⚠	R717	QRD125J-153	15K	1/2W	UNF.CARBON	
⚠	R718	QRD125J-153	15K	1/2W	UNF.CARBON	
⚠	R719	QRD14CJ-391S	390	1/4W	UNF.CARBON	
⚠	R720	QRD14CJ-391S	390	1/4W	UNF.CARBON	
⚠	R721	QRD14CJ-151S	150	1/4W	UNF.CARBON	
⚠	R722	QRD14CJ-151S	150	1/4W	UNF.CARBON	
	R723	QRD167J-222	2.2K	1/6W	CARBON	
	R724	QRD167J-222	2.2K	1/6W	CARBON	
	R725	QRD167J-393	39K	1/6W	CARBON	
	R726	QRD167J-393	39K	1/6W	CARBON	
⚠	R727	QRD14CJ-391S	390	1/4W	UNF.CARBON	
⚠	R728	QRD14CJ-391S	390	1/4W	UNF.CARBON	
	R729	QRD167J-152	1.5K	1/6W	CARBON	
	R730	QRD167J-152	1.5K	1/6W	CARBON	
⚠	R732	QRG022J-562A	5.6K	2W	O.M.FILM	
⚠	R733	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R734	QRD14CJ-100S	10	1/4W	UNF.CARBON	
	R735	QRD167J-103	10K	1/6W	CARBON	
	R736	QRD167J-103	10K	1/6W	CARBON	
	R737	QRD167J-103	10K	1/6W	CARBON	
	R738	QRD167J-103	10K	1/6W	CARBON	
	R739	QRD167J-221	220	1/6W	CARBON	
	R740	QRD167J-221	220	1/6W	CARBON	
	R741	QRD167J-221	220	1/6W	CARBON	
	R742	QRD167J-221	220	1/6W	CARBON	
	R743	QRD167J-271	270	1/6W	CARBON	
	R744	QRD167J-271	270	1/6W	CARBON	
	R745	QRD167J-271	270	1/6W	CARBON	
	R746	QRD167J-271	270	1/6W	CARBON	
	R747	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R748	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R749	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R750	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R751	QRD167J-122	1.2K	1/6W	CARBON	
	R752	QRD167J-122	1.2K	1/6W	CARBON	
	R753	QRD167J-122	1.2K	1/6W	CARBON	
	R754	QRD167J-122	1.2K	1/6W	CARBON	
	R755	QRD167J-471	470	1/6W	CARBON	
	R756	QRD167J-471	470	1/6W	CARBON	
	R757	QRD167J-101	100	1/6W	CARBON	
	R758	QRD167J-101	100	1/6W	CARBON	
	R759	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R760	ERT-D2WFL351S	350	1/4W	THERMISTOR	
	R761	QRD167J-391	390	1/6W	CARBON	
	R762	QRD167J-391	390	1/6W	CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	R765	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
⚠	R766	QRD14CJ-272S	2.7K	1/4W	UNF.CARBON	
⚠	R767	QRD14CJ-271S	270	1/4W	UNF.CARBON	
⚠	R768	QRD14CJ-271S	270	1/4W	UNF.CARBON	
⚠	R769	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R770	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R771	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R772	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R773	ERF032K-R22	0.22	3W	CEMENT	
⚠	R774	ERF032K-R22	0.22	3W	CEMENT	
⚠	R775	QRD125J-470	47	1/2W	UNF.CARBON	
⚠	R776	QRD125J-470	47	1/2W	UNF.CARBON	
⚠	R777	QRG022J-100A	10	2W	O.M.FILM	
⚠	R778	QRG022J-100A	10	2W	O.M.FILM	
⚠	R779	QRD125J-272	2.7K	1/2W	UNF.CARBON	
	R780	QRD167J-104	100K	1/6W	CARBON	
⚠	R781	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R782	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R783	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R784	QRD14CJ-100S	10	1/4W	UNF.CARBON	
	R801	QRD167J-114	110K	1/6W	CARBON	
	R802	QRD167J-114	110K	1/6W	CARBON	
⚠	R803	QRD14CJ-4R7S	4.7	1/4W	UNF.CARBON	
⚠	R804	QRD14CJ-4R7S	4.7	1/4W	UNF.CARBON	
	R805	QRD167J-472	4.7K	1/6W	CARBON	
	R806	QRD167J-472	4.7K	1/6W	CARBON	
⚠	R809	QRG022J-222A	2.2K	2W	O.M.FILM	
⚠	R811	QRX022J-1R2A	1.2	2W	M.FILM	
⚠	R812	QRX012J-1R2A	1.2	1W	M.FILM	
⚠	R813	QRG026J-680AF	68	2W	O.M.FILM	
⚠	R814	QRD125J-272	2.7K	1/2W	UNF.CARBON	
⚠	R815	QRG026J-470AF	47	2W	O.M.FILM	
⚠	R816	QRD125J-272	2.7K	1/2W	UNF.CARBON	
⚠	R817	QRG022J-680A	68	2W	O.M.FILM	
⚠	R818	QRG022J-390A	39	2W	O.M.FILM	
⚠	R819	QRG022J-390A	39	2W	O.M.FILM	
⚠	R820	QRG022J-470A	47	2W	O.M.FILM	
	R821	QRD167J-562	5.6K	1/6W	CARBON	
	R822	QRD167J-682	6.8K	1/6W	CARBON	
	R823	QRD167J-133	13K	1/6W	CARBON	
⚠	R824	QRD14CJ-150S	15	1/4W	UNF.CARBON	
	R825	QRD167J-152	1.5K	1/6W	CARBON	
	R826	QRD167J-133	13K	1/6W	CARBON	
⚠	R827	QRD14CJ-1R5S	1.5	1/4W	UNF.CARBON	
⚠	R828	QRD125J-272	2.7K	1/2W	UNF.CARBON	
⚠	R829	QRG022J-220A	22	2W	O.M.FILM	
⚠	R875	QRD14CJ-100S	10	1/4W	UNF.CARBON	
⚠	R876	QRD14CJ-100S	10	1/4W	UNF.CARBON	
	R877	QRD167J-823	82K	1/6W	CARBON	
	R878	QRD167J-222	2.2K	1/6W	CARBON	
	R879	QRD167J-563	56K	1/6W	CARBON	
	R880	QRD167J-473	47K	1/6W	CARBON	
	R881	QRD167J-153	15K	1/6W	CARBON	
	R882	QRD167J-474	470K	1/6W	CARBON	
	R883	QRD167J-271	270	1/6W	CARBON	
	R884	QRD167J-472	4.7K	1/6W	CARBON	
	R885	QRD167J-474	470K	1/6W	CARBON	
	R886	QRD167J-103	10K	1/6W	CARBON	
	R887	QRD167J-224	220K	1/6W	CARBON	
	R888	QRD167J-472	4.7K	1/6W	CARBON	
	R889	QRD167J-472	4.7K	1/6W	CARBON	
	R890	QRD167J-914	910K	1/6W	CARBON	
	R891	QRD167J-914	910K	1/6W	CARBON	
	R892	QRD167J-154	150K	1/6W	CARBON	
	R893	QRD167J-103	10K	1/6W	CARBON	
	R894	QRD167J-103	10K	1/6W	CARBON	
	R895	QRD167J-122	1.2K	1/6W	CARBON	
	R896	QRD167J-123	12K	1/6W	CARBON	
	R897	PTH9M04BF222TS			POSITIVE T	HE
⚠	R898	QRG022J-220A	22	2W	O.M.FILM	
⚠	R899	QRG022J-220A	22	2W	O.M.FILM	
	R901	QRD167J-102	1K	1/6W	CARBON	
	R902	QRD167J-102	1K	1/6W	CARBON	
	R903	QRD167J-562	5.6K	1/6W	CARBON	
	R904	QRD167J-562	5.6K	1/6W	CARBON	
	R905	QRD167J-123	12K	1/6W	CARBON	
	R906	QRD167J-123	12K	1/6W	CARBON	
	R907	QRD167J-102	1K	1/6W	CARBON	
	R908	QRD167J-102	1K	1/6W	CARBON	
	R909	QRD167J-103	10K	1/6W	CARBON	
	R911	QRD167J-332	3.3K	1/6W	CARBON	
	R912	QRD167J-473	47K	1/6W	CARBON	
	R913	QRD167J-104	100K	1/6W	CARBON	
	R914	QRD167J-823	82K	1/6W	CARBON	
	R915	QRD167J-823	82K	1/6W	CARBON	
	R916	QRD167J-563	56K	1/6W	CARBON	
	R917	QRD167J-683	68K	1/6W	CARBON	
	R918	QRD167J-392	3.9K	1/6W	CARBON	
	R919	QRD167J-392	3.9K	1/6W	CARBON	
	R920	QRD167J-333	33K	1/6W	CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R921	QRD167J-224	220K 1/6W CARBON	
	R922	QRD167J-183	18K 1/6W CARBON	
	R923	QRD167J-330	33 1/6W CARBON	
⚠	R924	QRG022J-221A	220 2W O.M.FILM	
	R925	QRD167J-330	33 1/6W CARBON	
	R926	QRD167J-330	33 1/6W CARBON	
	R927	QRD167J-330	33 1/6W CARBON	
	R928	QRD167J-330	33 1/6W CARBON	
⚠	R929	QRD14CJ-101S	100 1/4W UNF.CARBON	
	R930	QRD167J-562	5.6K 1/6W CARBON	
	R931	QRD167J-123	12K 1/6W CARBON	
	R932	QRD167J-332	3.3K 1/6W CARBON	
	R940	QRD167J-222	2.2K 1/6W CARBON	
	R941	QRD167J-102	1K 1/6W CARBON	
	R942	QRD167J-562	5.6K 1/6W CARBON	
	R943	QRD167J-123	12K 1/6W CARBON	
	R944	QRD167J-102	1K 1/6W CARBON	
	R945	QRD167J-823	82K 1/6W CARBON	
⚠	R946	QRD14CJ-220S	22 1/4W UNF.CARBON	
⚠	R947	QRG022J-221A	220 2W O.M.FILM	
⚠	R948	QRG022J-151A	150 2W O.M.FILM	
	R949	QRD167J-220	22 1/6W CARBON	
	R950	QRD167J-220	22 1/6W CARBON	
	R951	QRD167J-471	470 1/6W CARBON	
	R952	QRD167J-471	470 1/6W CARBON	
	R953	QRD167J-562	5.6K 1/6W CARBON	
	R954	QRD167J-562	5.6K 1/6W CARBON	
	R955	QRD167J-123	12K 1/6W CARBON	
	R956	QRD167J-123	12K 1/6W CARBON	
	R957	QRD167J-152	1.5K 1/6W CARBON	
	R958	QRD167J-152	1.5K 1/6W CARBON	
	R959	QRD167J-103	10K 1/6W CARBON	
⚠	R960	QRD14CJ-470S	47 1/4W UNF.CARBON	
	R961	QRD167J-332	3.3K 1/6W CARBON	
	R962	QRD167J-473	47K 1/6W CARBON	
	R963	QRD167J-104	100K 1/6W CARBON	
	R964	QRD167J-823	82K 1/6W CARBON	
	R965	QRD167J-473	47K 1/6W CARBON	
	R966	QRD167J-563	56K 1/6W CARBON	
	R967	QRD167J-683	68K 1/6W CARBON	
	R968	QRD167J-392	3.9K 1/6W CARBON	
	R969	QRD167J-183	18K 1/6W CARBON	
	R970	QRD167J-204	200K 1/6W CARBON	
	R971	QRD167J-181	180 1/6W CARBON	
	R972	QRD167J-181	180 1/6W CARBON	
⚠	R973	QRG022J-391A	390 2W O.M.FILM	
⚠	R975	QRG022J-471A	470 2W O.M.FILM	
⚠	R976	QRG022J-471A	470 2W O.M.FILM	
	VR071	QVPE601-102	1K 0.15W VARIABLE	
	VR701	QVPE601-501	500 0.15W VARIABLE	
	VR702	QVPE601-501	500 0.15W VARIABLE	

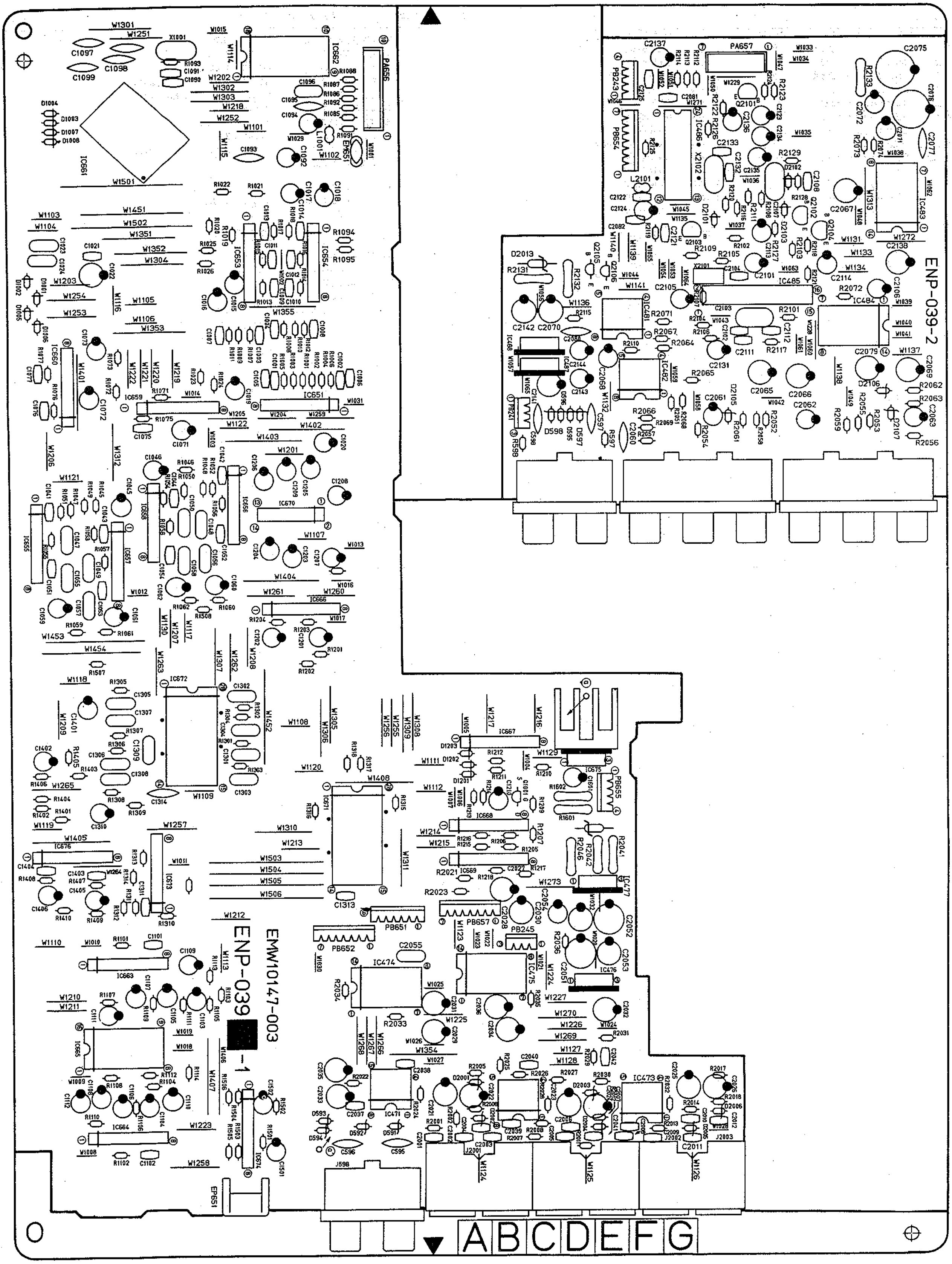
⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10132-003	CIRCUIT BOARD	
		EWS112-006	SOCKET WIRE	
		E207227-002	HEAT SINK	
		E305205-001	HEAT SINK BRACKET	
		E306249-001	HEAT SINK BRACKET	
		E3400-431	SPACER	
		E406748-001	MYLAR SHEET	
		E48269-001	SPACER	
		E67764-103	WRAPPING TERMINAL	
		E70208-001	PLATE	
		E70306-001	HEAT SINK	
		E70859-001	EARTH PLATE	
		E70945-H25B	HEAT SINK	
		E73525-001	SPECIAL SCREW	
		E73525-002	SCREW	
		E74546-001	HEAT SINK BRACKET	
		SBSB3008CC	SCREW	
		SBSE3010CC	SCREW	
		SBSG3008CC	SCREW	
		SBSG3008Z	SCREW	
	J701	EMB00TV-801A	TERMINAL	
	J702	EMB90YV-401A	SPEAKER TERMINAL	
	J703	EMB90YV-201AG	ANTENNA TERMINAL	
	J901	QMS6A40-021	HEADPHONE JACK	
	L011	EQL0001-R45	INDUCTOR	
	L012	EQL0001-R45	INDUCTOR	
	L071	EQL0001-1R0	INDUCTOR	
	L701	EQL0101-1R2	INDUCTOR	
	L702	EQL0101-1R2	INDUCTOR	
	P803	EMV7122-103	CONNECTOR(3PIN)	
	P811	EMV7122-004	CONNECTOR(4PIN)	
	P872	EMV5102-003B	PLUG ASSY(3PIN)	
	P873	EMV5111-003B	PLUG ASSY(3PIN)	
	P901	EMV7122-103	CONNECTOR(3PIN)	
	S491	ESP0001-018	TACT SWITCH(VOLUME -)	
	S492	ESP0001-018	TACT SWITCH(VOLUME +)	
	S493	ESP0001-018	TACT SWITCH(MUTE)	
	S495	ESP0001-018	TACT SWITCH(POWER)	
	S901	QST4231-E04	PUSH SWITCH(SPK-1)	
	S902	QST4231-E04	PUSH SWITCH(SPK-2)	
	FW414	EWR33B-35LST	FLAT WIRE(3PIN)	
	FW415	EWR33B-13LST	FLAT WIRE(3PIN)	
	FW711	EWR34B-75SST	FLAT WIRE(4PIN)	
	FW712	EWR33B-70SST	FLAT WIRE(3PIN)	
	FW803	EWR33B-13LST	FLAT WIRE(3PIN)	
	FW811	EWR34E-30LST	FLAT WIRE(4PIN)	
	FW901	EWR33B-13LST	FLAT WIRE(3PIN)	
	PA462	VMC0194-P05	MALE CONNECTOR(5PIN)	
	PA701	EMV5109-006A	PLUG ASSY(6PIN)	
	PA702	EMV5109-003A	PLUG ASSY(3PIN)	
	PA801	EMV7125-012R	CONNECTOR(12PIN)	
	PA802	EMV5142-910	PLUG ASSY(10PIN)	
	PA804	EMV5142-409	PLUG ASSY(9PIN)	
	PA871	EMV7125-006R	CONNECTOR(6PIN)	
	PB246	EWS323-A940	SOCKET WIRE(3PIN)	
	PB304	EWS326-A931	SOCKET WIRE(6PIN)	
	PB442	VMC0194-S06	CONNECT TERMINAL(6PIN)	
	PB801	EMV5125-012	PLUG ASSY(12PIN)	
	PB802	EWS32A-A916	SOCKET WIRE(10PIN)	
	PB871	EMV5125-006	PLUG ASSY(6PIN)	
	RY901	ESK5D24-214	RELAY	
	RY941	ESK1D12-118J1	RELAY	
	RY951	ESK7D24-2120	RELAY	
	SW890	OHD8-90B	THERMAL SWITCH	

⚠ : SAFETY PARTS

■ ENP-039 A Video Selector & DAP PC Board Ass'y


ENP-039-2
ENP-039
EMW10147-003
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A
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Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q1001	2SK163(L1)	F.E.T NEC	
	Q2101	2SC458(C,D)	SILICON HITACHI	
	Q2102	2SC458(C,D)	SILICON HITACHI	
	Q2103	2SC458(C,D)	SILICON HITACHI	
	Q2104	2SC458(C,D)	SILICON HITACHI	
	Q2105	DTA144ES	SILICON ROHM	
	Q2106	DTA144ES	SILICON ROHM	

⚠ : SAFETY PARTS

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC471	MC14577BP	I.C. NIHON MOTORORR	
	IC472	MC14577BP	I.C. NIHON MOTORORR	
	IC473	MC14577BP	I.C. NIHON MOTORORR	
	IC474	LA7951	I.C. SANYO	
	IC475	LA7951	I.C. SANYO	
	IC476	NJM78M05FD	I.C. DAINICHI	
	IC477	NJM79M05FA	I.C. DAINICHI	
	IC481	MC14577BP	I.C. NIHON MOTORORR	
	IC482	MC14577BP	I.C. NIHON MOTORORR	
	IC483	LA7951	I.C. SANYO	
	IC484	BU4066B	I.C. ROHM	
	IC485	NJM2229S	I.C. DAINICHI	
	IC486	UPD6452CS-507	I.C. NEC	
	IC487	NJM78M05FD	I.C. DAINICHI	
	IC488	NJM79M05FA	I.C. DAINICHI	
	IC651	XRA15218N	I.C. EXAR JAPAN	
	IC653	XRA15218N	I.C. EXAR JAPAN	
	IC654	XRA15218N	I.C. EXAR JAPAN	
	IC655	XRA15218N	I.C. EXAR JAPAN	
	IC656	XRA15218N	I.C. EXAR JAPAN	
	IC657	XRA15218N	I.C. EXAR JAPAN	
	IC658	XRA15218N	I.C. EXAR JAPAN	
	IC659	XRA15218N	I.C. EXAR JAPAN	
	IC660	XRA15218N	I.C. EXAR JAPAN	
	IC661	YM7306C	I.C. YAMAHA	
	IC662	LH2464-12	I.C. SHARP	
	IC663	XRA15218N	I.C. EXAR JAPAN	
	IC664	XRA15218N	I.C. EXAR JAPAN	
	IC665	TC9176P	I.C. TOSHIBA	
	IC666	XRA15218N	I.C. EXAR JAPAN	
	IC667	XRA15218N	I.C. EXAR JAPAN	
	IC668	XRA15218N	I.C. EXAR JAPAN	
	IC669	XRA15218N	I.C. EXAR JAPAN	
	IC670	M51523AL	I.C. MITSUBISHI	
	IC671	TC9162N	I.C. TOSHIBA	
	IC672	TC9164N	I.C. TOSHIBA	
	IC673	XRA15218N	I.C. EXAR JAPAN	
	IC674	XRA15218N	I.C. EXAR JAPAN	
	IC675	NJM78M05FD	I.C. DAINICHI	
	IC676	XRA15218N	I.C. EXAR JAPAN	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D591	MTZ13JC	ZENER ROHM	
	D592	MTZ13JC	ZENER ROHM	
	D593	MTZ13JC	ZENER ROHM	
	D594	MTZ13JC	ZENER ROHM	
	D595	MTZ13JC	ZENER ROHM	
	D596	MTZ13JC	ZENER ROHM	
	D597	MTZ13JC	ZENER ROHM	
	D598	MTZ13JC	ZENER ROHM	
	D1001	1SS133	SILICON ROHM	
	D1002	1SS133	SILICON ROHM	
	D1003	1SS133	SILICON ROHM	
	D1004	1SS133	SILICON ROHM	
	D1005	1SS133	SILICON ROHM	
	D1006	1SS133	SILICON ROHM	
	D1007	1SS133	SILICON ROHM	
	D1008	1SS133	SILICON ROHM	
	D1201	1SS133	SILICON ROHM	
	D1202	1SS133	SILICON ROHM	
	D1203	1SS133	SILICON ROHM	
	D2011	RD2.7FB2	ZENER NEC	
	D2013	RD2.7FB2	ZENER NEC	
	D2021	MTZ5.1JC	ZENER ROHM	
	D2022	MTZ5.1JC	ZENER ROHM	
	D2023	MTZ5.1JC	ZENER ROHM	
	D2024	MTZ5.1JC	ZENER ROHM	
	D2025	MTZ5.1JC	ZENER ROHM	
	D2026	MTZ5.1JC	ZENER ROHM	
	D2027	MTZ5.1JC	ZENER ROHM	
	D2028	MTZ5.1JC	ZENER ROHM	
	D2029	MTZ5.1JC	ZENER ROHM	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D2030	MTZ5.1JC	ZENER ROHM	
	D2031	MTZ5.1JC	ZENER ROHM	
	D2032	MTZ5.1JC	ZENER ROHM	
	D2101	1SS133	SILICON ROHM	
	D2102	1SS133	SILICON ROHM	
	D2103	1SS133	SILICON ROHM	
	D2105	MTZ12JC	ZENER ROHM	
	D2106	MTZ12JC	ZENER ROHM	
	D2107	MTZ12JC	ZENER ROHM	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C097	QCS21HJ-331	330PF 50V CERAMIC	
	C098	QCS21HJ-331	330PF 50V CERAMIC	
	C099	QCS21HJ-331	330PF 50V CERAMIC	
	C1001	QCBB1HK-101	100PF 50V CERAMIC	
	C1002	QCBB1HK-101	100PF 50V CERAMIC	
	C1003	QCBB1HK-681	680PF 50V CERAMIC	
	C1004	QCBB1HK-681	680PF 50V CERAMIC	
	C1005	QCSB1HJ-680	68PF 50V CERAMIC	
	C1006	QCSB1HJ-680	68PF 50V CERAMIC	
	C1007	QCBB1HK-271	270PF 50V CERAMIC	
	C1008	QCBB1HK-271	270PF 50V CERAMIC	
	C1009	QCBB1HK-681	680PF 50V CERAMIC	
	C1010	QCBB1HK-681	680PF 50V CERAMIC	
	C1011	QCSB1HJ-680	68PF 50V CERAMIC	
	C1012	QCSB1HJ-680	68PF 50V CERAMIC	
	C1013	QCBB1HK-271	270PF 50V CERAMIC	
	C1014	QCBB1HK-271	270PF 50V CERAMIC	
	C1015	QETB1EM-476	47MF 25V ELECTRO	
	C1016	QETB1EM-476	47MF 25V ELECTRO	
	C1017	QETB1EM-106	10MF 25V ELECTRO	
	C1018	QETB1EM-106	10MF 25V ELECTRO	
	C1019	QETB1EM-106	10MF 25V ELECTRO	
	C1020	QETB1EM-106	10MF 25V ELECTRO	
	C1021	QCVB1CM-103	0.01MF 16V CERAMIC	
	C1022	QETB1CM-107	100MF 16V ELECTRO	
	C1023	QFN81HJ-332	3300PF 50V MYLAR	
	C1024	QFN81HJ-332	3300PF 50V MYLAR	
	C1041	QCSB1HJ-330	33PF 50V CERAMIC	
	C1042	QCSB1HJ-330	33PF 50V CERAMIC	
	C1043	QCSB1HJ-330	33PF 50V CERAMIC	
	C1044	QCSB1HJ-330	33PF 50V CERAMIC	
	C1045	QEK51EM-106	10MF 25V ELECTRO	
	C1046	QEK51EM-106	10MF 25V ELECTRO	
	C1047	QFN81HJ-272	2700PF 50V MYLAR	
	C1048	QFN81HJ-272	2700PF 50V MYLAR	
	C1049	QFN81HJ-272	2700PF 50V MYLAR	
	C1050	QFN81HJ-272	2700PF 50V MYLAR	
	C1051	QCBB1HK-391	390PF 50V CERAMIC	
	C1052	QCBB1HK-391	390PF 50V CERAMIC	
	C1053	QCBB1HK-391	390PF 50V CERAMIC	
	C1054	QCBB1HK-391	390PF 50V CERAMIC	
	C1055	QFN81HJ-682	6800PF 50V MYLAR	
	C1056	QFN81HJ-682	6800PF 50V MYLAR	
	C1057	QFN81HJ-682	6800PF 50V MYLAR	
	C1058	QFN81HJ-682	6800PF 50V MYLAR	
	C1059	QEK51HM-105G	1MF 50V ELECTRO	
	C1060	QEK51HM-105G	1MF 50V ELECTRO	
	C1061	QEK51HM-105G	1MF 50V ELECTRO	
	C1062	QEK51HM-105G	1MF 50V ELECTRO	
	C1071	QEK51EM-106	10MF 25V ELECTRO	
	C1072	QEK51EM-106	10MF 25V ELECTRO	
	C1073	QEK51EM-106	10MF 25V ELECTRO	
	C1075	QCSB1HJ-680	68PF 50V CERAMIC	
	C1076	QCSB1HJ-680	68PF 50V CERAMIC	
	C1077	QCSB1HJ-680	68PF 50V CERAMIC	
	C1090	QCSB1HJ-330	33PF 50V CERAMIC	
	C1091	QCSB1HJ-330	33PF 50V CERAMIC	
	C1092	QETB1EM-476	47MF 25V ELECTRO	
	C1093	QCF21HP-473	0.047MF 50V CERAMIC	
	C1094	QETB1EM-476	47MF 25V ELECTRO	
	C1095	QCF21HP-473	0.047MF 50V CERAMIC	
	C1096	QCZ0205-155	1.5MF 25V CERAMIC	
	C1101	QCBB1HK-101	100PF 50V CERAMIC	
	C1102	QCBB1HK-101	100PF 50V CERAMIC	
	C1103	QETB1HM-105	1MF 50V ELECTRO	
	C1104	QETB1HM-105	1MF 50V ELECTRO	
	C1105	QETB1HM-105	1MF 50V ELECTRO	
	C1106	QETB1HM-105	1MF 50V ELECTRO	
	C1107	QETB1HM-105	1MF 50V ELECTRO	
	C1108	QETB1HM-105	1MF 50V ELECTRO	
	C1109	QETB1HM-475	4.7MF 50V ELECTRO	
	C1110	QETB1HM-475	4.7MF 50V ELECTRO	
	C1111	QETB1EM-476	47MF 25V ELECTRO	
	C1112	QETB1EM-476	47MF 25V ELECTRO	
	C1201	QETB1HM-105	1MF 50V ELECTRO	
	C1202	QETB1HM-105	1MF 50V ELECTRO	
	C1203	QETB1EM-106	10MF 25V ELECTRO	
	C1204	QETB1EM-106	10MF 25V ELECTRO	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C1205	QETB1EM-106	10MF 25V ELECTRO	
	C1206	QETB1EM-106	10MF 25V ELECTRO	
	C1207	QETB1EM-226	22MF 25V ELECTRO	
	C1208	QETB1EM-226	22MF 25V ELECTRO	
	C1209	QETB1EM-226	22MF 25V ELECTRO	
	C1210	QETB1EM-226	22MF 25V ELECTRO	
	C1301	QFN81HJ-183	0.018MF 50V MYLAR	
	C1302	QFN81HJ-183	0.018MF 50V MYLAR	
	C1303	QFN81HJ-683	0.068MF 50V MYLAR	
	C1304	QFN81HJ-683	0.068MF 50V MYLAR	
	C1305	QFN81HJ-183	0.018MF 50V MYLAR	
	C1306	QFN81HJ-183	0.018MF 50V MYLAR	
	C1307	QFN81HJ-683	0.068MF 50V MYLAR	
	C1308	QFN81HJ-683	0.068MF 50V MYLAR	
	C1309	QFV81HJ-154	0.15MF 50V T.FILM	
	C1310	QETB1EM-106	10MF 25V ELECTRO	
	C1311	QCBB1HK-101	100PF 50V CERAMIC	
	C1313	QCSB1HJ-680	68PF 50V CERAMIC	
	C1401	QETB1EM-106	10MF 25V ELECTRO	
	C1402	QETB1EM-106	10MF 25V ELECTRO	
	C1403	QCBB1HK-101	100PF 50V CERAMIC	
	C1404	QCBB1HK-101	100PF 50V CERAMIC	
	C1405	QETB1HM-475	4.7MF 50V ELECTRO	
	C1406	QETB1HM-475	4.7MF 50V ELECTRO	
	C1501	QETB1HM-105	1MF 50V ELECTRO	
	C1502	QETB1HM-105	1MF 50V ELECTRO	
	C1601	QEHC1EM-476	47MF 25V ELECTRO	
	C2003	QCBB1HK-101	100PF 50V CERAMIC	
	C2004	QCBB1HK-101	100PF 50V CERAMIC	
	C2007	QCBB1HK-101	100PF 50V CERAMIC	
	C2008	QCBB1HK-101	100PF 50V CERAMIC	
	C2011	QCBB1HK-101	100PF 50V CERAMIC	
	C2012	QCBB1HK-101	100PF 50V CERAMIC	
	C2021	QETB1CM-107	100MF 16V ELECTRO	
	C2022	QETB1CM-107	100MF 16V ELECTRO	
	C2023	QETB1CM-107	100MF 16V ELECTRO	
	C2024	QETB1CM-107	100MF 16V ELECTRO	
	C2025	QETB1CM-107	100MF 16V ELECTRO	
	C2026	QETB1CM-107	100MF 16V ELECTRO	
	C2027	QETB1CM-107	100MF 16V ELECTRO	
	C2028	QETB1CM-107	100MF 16V ELECTRO	
	C2029	QETB1CM-107	100MF 16V ELECTRO	
	C2030	QETB1CM-107	100MF 16V ELECTRO	
	C2031	QETB1CM-107	100MF 16V ELECTRO	
	C2032	QEHB1CM-107	100MF 16V ELECTRO	
	C2033	QETB1CM-476	47MF 16V ELECTRO	
	C2034	QETB1CM-476	47MF 16V ELECTRO	
	C2035	QETB1HM-475	4.7MF 50V ELECTRO	
	C2036	QETB1HM-475	4.7MF 50V ELECTRO	
	C2037	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2038	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2039	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2040	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2041	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2042	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2051	QEHB1CM-476	47MF 16V ELECTRO	
	C2052	QEHB1CM-476	47MF 16V ELECTRO	
	C2053	QEHB0JM-227	220MF 6.3V ELECTRO	
	C2054	QEHB0JM-227	220MF 6.3V ELECTRO	
	C2055	QCZ0205-155	1.5MF 25V CERAMIC	
	C2061	QETB1HM-475	4.7MF 50V ELECTRO	
	C2062	QETB1HM-475	4.7MF 50V ELECTRO	
	C2063	QETB1HM-475	4.7MF 50V ELECTRO	
	C2065	QETB1CM-107	100MF 16V ELECTRO	
	C2066	QETB1CM-107	100MF 16V ELECTRO	
	C2067	QETB1CM-107	100MF 16V ELECTRO	
	C2068	QETB1AM-107	100MF 10V ELECTRO	
	C2069	QETB1AM-107	100MF 10V ELECTRO	
	C2070	QEHB1AM-107	100MF 10V ELECTRO	
	C2071	QETB1CM-476	47MF 16V ELECTRO	
	C2072	QETB1HM-475	4.7MF 50V ELECTRO	
	C2075	QETB1CM-227	220MF 16V ELECTRO	
	C2076	QETB1CM-227	220MF 16V ELECTRO	
	C2077	QCF21HP-223	0.022MF 50V CERAMIC	
	C2078	QETB1CM-107	100MF 16V ELECTRO	
	C2079	QETB1CM-107	100MF 16V ELECTRO	
	C2081	QCGB1HK-102	1000PF 50V CERAMIC	
	C2082	QCGB1HK-102	1000PF 50V CERAMIC	
	C2101	QETB1EM-106	10MF 25V ELECTRO	
	C2102	QCBB1HK-101	100PF 50V CERAMIC	
	C2103	QFV81HJ-683	0.068MF 50V T.FILM	
	C2104	QCXB1CM-392	3900PF 16V CERAMIC	
	C2105	QETB1HM-105	1MF 50V ELECTRO	
	C2107	QFV81HJ-104	0.1MF 50V T.FILM	
	C2108	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C2111	QCGB1HK-102	1000PF 50V CERAMIC	
	C2112	QCGB1HK-102	1000PF 50V CERAMIC	
	C2113	QETB1HM-475	4.7MF 50V ELECTRO	
	C2114	QETB1AM-107	100MF 10V ELECTRO	
	C2121	QCSB1HJ-220	22PF 50V CERAMIC	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C2122	QCSB1HJ-220	22PF 50V CERAMIC	
	C2123	QETB1AM-107	100MF 10V ELECTRO	
	C2124	QETB1AM-107	100MF 10V ELECTRO	
	C2125	QCBB1HK-471	470PF 50V CERAMIC	
	C2131	QETB1HM-105	1MF 50V ELECTRO	
	C2132	QCSB1HJ-220	22PF 50V CERAMIC	
	C2133	QCSB1HJ-220	22PF 50V CERAMIC	
	C2134	QETB1AM-107	100MF 10V ELECTRO	
	C2135	QETB1AM-107	100MF 10V ELECTRO	
	C2136	QETB1AM-107	100MF 10V ELECTRO	
	C2137	QETB1HM-106	10MF 50V ELECTRO	
	C2138	QETB1HM-106	10MF 50V ELECTRO	
	C2141	QEHB0JM-227	220MF 6.3V ELECTRO	
	C2142	QEHB0JM-227	220MF 6.3V ELECTRO	
	C2143	QEHB1CM-476	47MF 16V ELECTRO	
	C2144	QEHB1CM-476	47MF 16V ELECTRO	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R597	QRD167J-471	470 1/6W CARBON	
	R598	QRD167J-471	470 1/6W CARBON	
	R1001	QRD167J-104	100K 1/6W CARBON	
	R1002	QRD167J-104	100K 1/6W CARBON	
	R1003	QRD167J-104	100K 1/6W CARBON	
	R1004	QRD167J-104	100K 1/6W CARBON	
	R1005	QRD167J-223	22K 1/6W CARBON	
	R1006	QRD167J-223	22K 1/6W CARBON	
	R1007	QRD167J-103	10K 1/6W CARBON	
	R1008	QRD167J-103	10K 1/6W CARBON	
	R1009	QRD167J-103	10K 1/6W CARBON	
	R1010	QRD167J-103	10K 1/6W CARBON	
	R1011	QRD167J-103	10K 1/6W CARBON	
	R1012	QRD167J-103	10K 1/6W CARBON	
	R1013	QRD167J-103	10K 1/6W CARBON	
	R1014	QRD167J-103	10K 1/6W CARBON	
	R1015	QRD167J-103	10K 1/6W CARBON	
	R1016	QRD167J-103	10K 1/6W CARBON	
	R1017	QRD167J-103	10K 1/6W CARBON	
	R1018	QRD167J-103	10K 1/6W CARBON	
	R1019	QRD167J-103	10K 1/6W CARBON	
	R1020	QRD167J-103	10K 1/6W CARBON	
	R1021	QRD167J-101	100 1/6W CARBON	
	R1022	QRD167J-101	100 1/6W CARBON	
	R1023	QRD167J-104	100K 1/6W CARBON	
	R1024	QRD167J-104	100K 1/6W CARBON	
	R1025	QRD167J-101	100 1/6W CARBON	
	R1026	QRD167J-101	100 1/6W CARBON	
	R1045	QRD167J-473	47K 1/6W CARBON	
	R1046	QRD167J-473	47K 1/6W CARBON	
	R1047	QRD167J-822	8.2K 1/6W CARBON	
	R1048	QRD167J-822	8.2K 1/6W CARBON	
	R1049	QRD167J-822	8.2K 1/6W CARBON	
	R1050	QRD167J-822	8.2K 1/6W CARBON	
	R1051	QRD167J-822	8.2K 1/6W CARBON	
	R1052	QRD167J-822	8.2K 1/6W CARBON	
	R1053	QRD167J-822	8.2K 1/6W CARBON	
	R1054	QRD167J-822	8.2K 1/6W CARBON	
	R1055	QRD167J-822	8.2K 1/6W CARBON	
	R1056	QRD167J-822	8.2K 1/6W CARBON	
	R1057	QRD167J-822	8.2K 1/6W CARBON	
	R1058	QRD167J-822	8.2K 1/6W CARBON	
	R1059	QRD167J-474	470K 1/6W CARBON	
	R1060	QRD167J-474	470K 1/6W CARBON	
	R1061	QRD167J-474	470K 1/6W CARBON	
	R1062	QRD167J-474	470K 1/6W CARBON	
	R1071	QRD167J-103	10K 1/6W CARBON	
	R1072	QRD167J-103	10K 1/6W CARBON	
	R1073	QRD167J-103	10K 1/6W CARBON	
	R1075	QRD167J-103	10K 1/6W CARBON	
	R1076	QRD167J-103	10K 1/6W CARBON	
	R1077	QRD167J-103	10K 1/6W CARBON	
	R1085	QRD167J-102	1K 1/6W CARBON	
	R1086	QRD167J-102	1K 1/6W CARBON	
	R1087	QRD167J-102	1K 1/6W CARBON	
	R1088	QRD167J-102	1K 1/6W CARBON	
	R1091	QRD167J-104	100K 1/6W CARBON	
	R1092	QRD167J-104	100K 1/6W CARBON	
	R1093	QRD167J-105	1M 1/6W CARBON	
	R1094	QRD167J-472	4.7K 1/6W CARBON	
	R1095	QRD167J-472	4.7K 1/6W CARBON	
	R1101	QRD167J-153	15K 1/6W CARBON	
	R1102	QRD167J-153	15K 1/6W CARBON	
	R1103	QRD167J-103	10K 1/6W CARBON	
	R1104	QRD167J-103	10K 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R1105	QRD167J-104	100K 1/6W CARBON	
	R1106	QRD167J-104	100K 1/6W CARBON	
	R1107	QRD167J-104	100K 1/6W CARBON	
	R1108	QRD167J-104	100K 1/6W CARBON	
	R1109	QRD167J-104	100K 1/6W CARBON	
	R1110	QRD167J-104	100K 1/6W CARBON	
	R1111	QRD167J-104	100K 1/6W CARBON	
	R1112	QRD167J-104	100K 1/6W CARBON	
	R1113	QRD167J-104	100K 1/6W CARBON	
	R1114	QRD167J-104	100K 1/6W CARBON	
	R1201	QRD167J-103	10K 1/6W CARBON	
	R1202	QRD167J-103	10K 1/6W CARBON	
	R1203	QRD167J-104	100K 1/6W CARBON	
	R1204	QRD167J-104	100K 1/6W CARBON	
	R1205	QRD167J-103	10K 1/6W CARBON	
	R1206	QRD167J-183	18K 1/6W CARBON	
	R1207	QRD167J-103	10K 1/6W CARBON	
	R1209	QRD167J-473	47K 1/6W CARBON	
	R1210	QRD167J-103	10K 1/6W CARBON	
	R1211	QRD167J-103	10K 1/6W CARBON	
	R1212	QRD167J-104	100K 1/6W CARBON	
	R1213	QRD167J-475	4.7M 1/6W CARBON	
	R1214	QRD167J-224	220K 1/6W CARBON	
	R1215	QRD167J-103	10K 1/6W CARBON	
	R1216	QRD167J-103	10K 1/6W CARBON	
	R1217	QRD167J-203	20K 1/6W CARBON	
	R1218	QRD167J-203	20K 1/6W CARBON	
	R1301	QRD167J-224	220K 1/6W CARBON	
	R1302	QRD167J-224	220K 1/6W CARBON	
	R1303	QRD167J-224	220K 1/6W CARBON	
	R1304	QRD167J-224	220K 1/6W CARBON	
	R1305	QRD167J-224	220K 1/6W CARBON	
	R1306	QRD167J-224	220K 1/6W CARBON	
	R1307	QRD167J-224	220K 1/6W CARBON	
	R1308	QRD167J-224	220K 1/6W CARBON	
	R1309	QRD167J-103	10K 1/6W CARBON	
	R1310	QRD167J-103	10K 1/6W CARBON	
	R1311	QRD167J-103	10K 1/6W CARBON	
	R1312	QRD167J-103	10K 1/6W CARBON	
	R1313	QRD167J-103	10K 1/6W CARBON	
	R1314	QRD167J-103	10K 1/6W CARBON	
	R1315	QRD167J-562	5.6K 1/6W CARBON	
	R1316	QRD167J-562	5.6K 1/6W CARBON	
	R1317	QRD167J-822	8.2K 1/6W CARBON	
	R1318	QRD167J-822	8.2K 1/6W CARBON	
	R1401	QRD167J-103	10K 1/6W CARBON	
	R1402	QRD167J-103	10K 1/6W CARBON	
	R1403	QRD167J-472	4.7K 1/6W CARBON	
	R1404	QRD167J-472	4.7K 1/6W CARBON	
	R1405	QRD167J-562	5.6K 1/6W CARBON	
	R1406	QRD167J-562	5.6K 1/6W CARBON	
	R1407	QRD167J-103	10K 1/6W CARBON	
	R1408	QRD167J-103	10K 1/6W CARBON	
	R1409	QRD167J-104	100K 1/6W CARBON	
	R1410	QRD167J-104	100K 1/6W CARBON	
	R1501	QRD167J-474	470K 1/6W CARBON	
	R1502	QRD167J-474	470K 1/6W CARBON	
	R1503	QRD167J-103	10K 1/6W CARBON	
	R1504	QRD167J-103	10K 1/6W CARBON	
	R1505	QRD167J-103	10K 1/6W CARBON	
	R1506	QRD167J-103	10K 1/6W CARBON	
	R1507	QRD167J-562	5.6K 1/6W CARBON	
	R1508	QRD167J-562	5.6K 1/6W CARBON	
⚠	R1601	QRD12CJ-100S	10 1/2W R.NETWORK	
⚠	R1602	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R2001	QRD167J-750	75 1/6W CARBON	
	R2002	QRD167J-750	75 1/6W CARBON	
	R2005	QRD167J-750	75 1/6W CARBON	
	R2006	QRD167J-750	75 1/6W CARBON	
	R2007	QRD167J-750	75 1/6W CARBON	
	R2008	QRD167J-750	75 1/6W CARBON	
	R2011	QRD167J-750	75 1/6W CARBON	
	R2012	QRD167J-750	75 1/6W CARBON	
	R2013	QRD167J-750	75 1/6W CARBON	
	R2014	QRD167J-750	75 1/6W CARBON	
	R2017	QRD167J-750	75 1/6W CARBON	
	R2018	QRD167J-750	75 1/6W CARBON	
	R2021	QRD167J-100	10 1/6W CARBON	
	R2022	QRD167J-103	10K 1/6W CARBON	
	R2023	QRD167J-100	10 1/6W CARBON	
	R2024	QRD167J-103	10K 1/6W CARBON	
	R2025	QRD167J-100	10 1/6W CARBON	
	R2026	QRD167J-103	10K 1/6W CARBON	
	R2027	QRD167J-100	10 1/6W CARBON	
	R2028	QRD167J-103	10K 1/6W CARBON	
	R2029	QRD167J-100	10 1/6W CARBON	
	R2030	QRD167J-103	10K 1/6W CARBON	
	R2031	QRD167J-100	10 1/6W CARBON	
	R2032	QRD167J-103	10K 1/6W CARBON	
	R2033	QRD167J-122	1.2K 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R2034	QRD167J-122	1.2K 1/6W CARBON	
	R2035	QRD167J-122	1.2K 1/6W CARBON	
	R2036	QRD167J-122	1.2K 1/6W CARBON	
⚠	R2041	QRD12CJ-100S	10 1/2W R.NETWORK	
⚠	R2042	QRD14CJ-180S	18 1/4W UNF.CARBON	
⚠	R2046	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R2051	QRD167J-750	75 1/6W CARBON	
	R2052	QRD167J-750	75 1/6W CARBON	
	R2053	QRD167J-750	75 1/6W CARBON	
	R2054	QRD167J-750	75 1/6W CARBON	
	R2055	QRD167J-750	75 1/6W CARBON	
	R2056	QRD167J-750	75 1/6W CARBON	
	R2057	QRD167J-562	5.6K 1/6W CARBON	
	R2058	QRD167J-562	5.6K 1/6W CARBON	
	R2059	QRD167J-562	5.6K 1/6W CARBON	
	R2061	QRD167J-331	330 1/6W CARBON	
	R2062	QRD167J-331	330 1/6W CARBON	
	R2063	QRD167J-331	330 1/6W CARBON	
	R2064	QRD167J-100	10 1/6W CARBON	
	R2065	QRD167J-100	10 1/6W CARBON	
	R2066	QRD167J-100	10 1/6W CARBON	
	R2067	QRD167J-103	10K 1/6W CARBON	
	R2068	QRD167J-103	10K 1/6W CARBON	
	R2069	QRD167J-103	10K 1/6W CARBON	
	R2071	QRD167J-103	10K 1/6W CARBON	
	R2072	QRD167J-103	10K 1/6W CARBON	
	R2073	QRD167J-122	1.2K 1/6W CARBON	
	R2074	QRD167J-122	1.2K 1/6W CARBON	
	R2101	QRD167J-103	10K 1/6W CARBON	
	R2102	QRD167J-303	30K 1/6W CARBON	
	R2103	QRD167J-332	3.3K 1/6W CARBON	
	R2104	QRD167J-103	10K 1/6W CARBON	
	R2105	QRD167J-104	100K 1/6W CARBON	
	R2106	QRD167J-152	1.5K 1/6W CARBON	
	R2107	QRD167J-391	390 1/6W CARBON	
	R2108	QRD167J-472	4.7K 1/6W CARBON	
	R2109	QRD167J-221	220 1/6W CARBON	
	R2110	QRD167J-100	10 1/6W CARBON	
	R2111	QRD167J-123	12K 1/6W CARBON	
	R2112	QRD167J-220	22 1/6W CARBON	
	R2113	QRD167J-332	3.3K 1/6W CARBON	
	R2114	QRD167J-392	3.9K 1/6W CARBON	
	R2115	QRD167J-103	10K 1/6W CARBON	
	R2116	QRD167J-202	2K 1/6W CARBON	
	R2117	QRD167J-473	47K 1/6W CARBON	
	R2118	QRD167J-222	2.2K 1/6W CARBON	
	R2119	QRD167J-472	4.7K 1/6W CARBON	
	R2120	QRD167J-222	2.2K 1/6W CARBON	
	R2121	QRD167J-332	3.3K 1/6W CARBON	
	R2122	QRD167J-472	4.7K 1/6W CARBON	
	R2123	QRD167J-182	1.8K 1/6W CARBON	
	R2124	QRD167J-152	1.5K 1/6W CARBON	
	R2125	QRD167J-101	100 1/6W CARBON	
	R2126	QRD167J-473	47K 1/6W CARBON	
	R2127	QRD167J-470	47 1/6W CARBON	
	R2128	QRD167J-223	22K 1/6W CARBON	
	R2129	QRD167J-473	47K 1/6W CARBON	
⚠	R2131	QRD12CJ-100S	10 1/2W R.NETWORK	
⚠	R2132	QRD14CJ-330S	33 1/4W UNF.CARBON	
⚠	R2133	QRD14CJ-100S	10 1/4W UNF.CARBON	

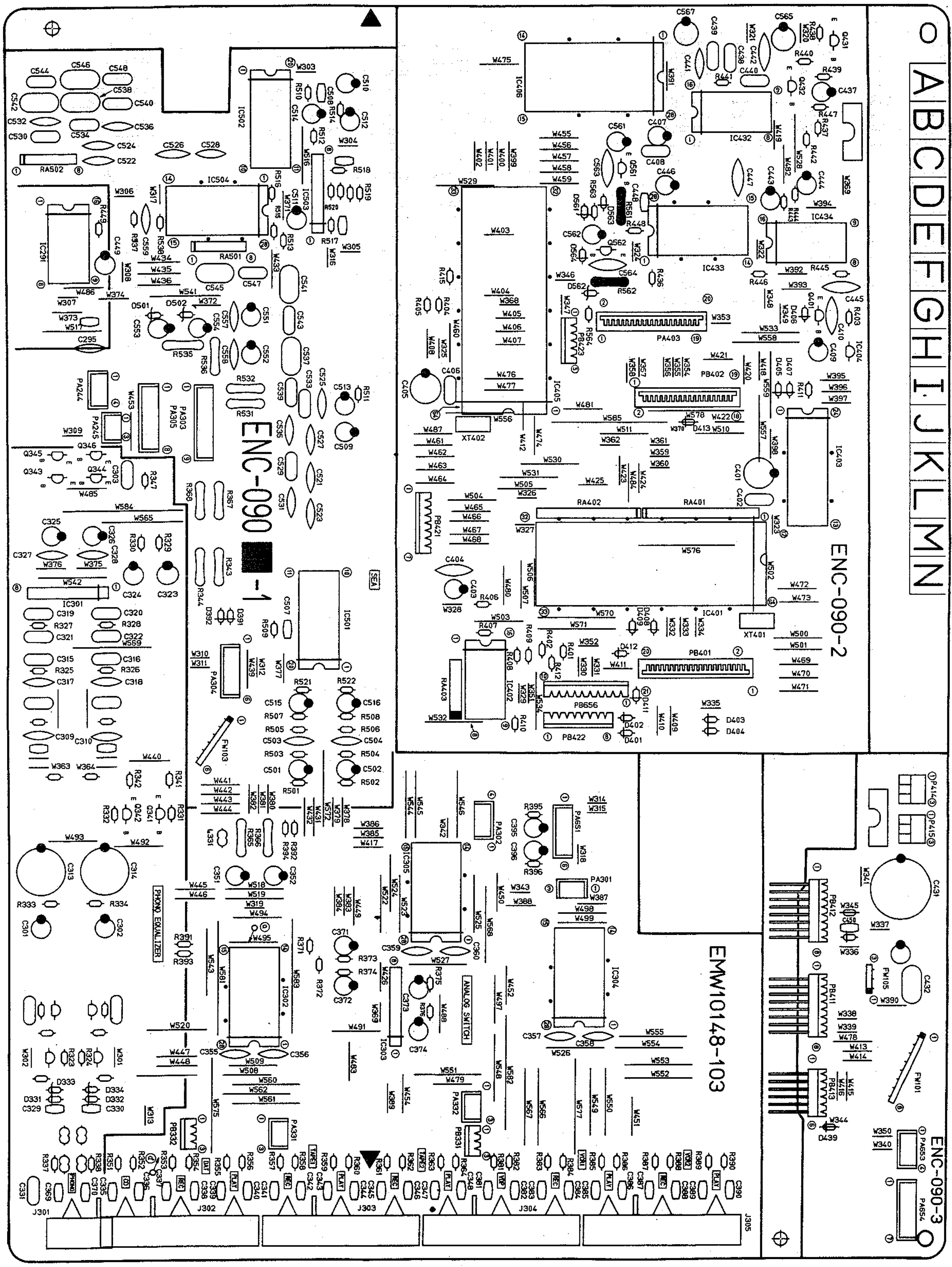
⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10147-003	CIRCUIT BOARD	
		E3400-431	SPACER	
	J598	EMN00YV-213A	2P PIN JACK	
	J599	EMN00YV-213A	2P PIN JACK	
	EM651	EQF0601-222	CERAMIC FILTER	
	J2001	EMD0489-009	JACK BOARD ASSY	
	J2002	EMD0489-009	JACK BOARD ASSY	
	J2003	EMD0489-009	JACK BOARD ASSY	
	J2011	EMN00YV-311A	3P PIN JACK	
	J2012	EMN00YV-311A	3P PIN JACK	
	L1001	EQL4004-1R0	INDUCTOR	
	L2101	EQL4004-330	INDUCTOR	
	PA656	EMV5142-910	PLUG ASSY(10PIN)	
	PA657	EMV5109-007A	PLUG ASSY(7PIN)	
	PB241	EWS293-0113	SOCKET WIRE(3PIN)	
	PB243	EWS324-A920	SOCKET WIRE(4PIN)	
	PB245	EWS323-A947	SOCKET WIRE(3PIN)	
	PB651	EWS296-0130	SOCKET WIRE(6PIN)	
	P8652	EWS297-1137	SOCKET WIRE(7PIN)	
	PB654	EWS327-A935	SOCKET WIRE(7PIN)	
	PB655	EWS324-A912	SOCKET WIRE(4PIN)	
	PB657	EWS297-1113	SOCKET WIRE(7PIN)	
	X1001	ECX0084-672EH	RESONATOR	
	X2101	ECX0000-503KS	RESONATOR	
	X2102	ECX1431-818DF	RESONATOR	

⚠ : SAFETY PARTS

■ENC-090 F Source Selector , SEA & System Control PC Board Ass'y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RA501
RA502
PB401
PB402
PB411
PB412
PB413
PB421
PB422
PB423
PB656
PA403
C431
C432

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q401	DTC114YS	SILICON ROHM	
	Q431	2SC1685(R,S)	SILICON MATSUSHITA	
	Q432	2SC1685(R,S)	SILICON MATSUSHITA	
	Q561	2SC2235(O,Y)	SILICON TOSHIBA	
	Q562	2SA965(O,Y)	SILICON TOSHIBA	

⚠ : SAFETY PARTS

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC291	TC74HC595AP	I.C. TOSHIBA	
	IC301	VC4580LD	I.C. DAINICHI	
	IC302	TC9164N	I.C. TOSHIBA	
	IC303	VC4580LD	I.C. DAINICHI	
	IC304	TC9164N	I.C. TOSHIBA	
	IC305	TC9163N	I.C. TOSHIBA	
	IC401	MN171602JPC2	I.C. MATSUSHITA	
	IC402	M66007P	I.C. MITSUBISHI	
	IC403	LC3517BS-15	I.C. SANYO	
	IC404	MN1281(P,Q)	I.C. MATSUSHITA	
	IC432	XR-1091DCP	I.C. EXAR JAPAN	
	IC433	TC9162N	I.C. TOSHIBA	
	IC434	UPD7001C	I.C. NEC	
	IC501	LA3607S	I.C. SANYO	
	IC502	LA3607S	I.C. SANYO	
	IC503	VC4580LD	I.C. DAINICHI	
	IC504	LC7522	I.C. SANYO	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D331	MTZ13JC	ZENER ROHM	
	D332	MTZ13JC	ZENER ROHM	
	D333	MTZ13JC	ZENER ROHM	
	D334	MTZ13JC	ZENER ROHM	
	D391	1SS133	SILICON ROHM	
	D392	1SS133	SILICON ROHM	
	D401	1SS133	SILICON ROHM	
	D402	1SS133	SILICON ROHM	
	D405	1SS133	SILICON ROHM	
	D406	1SS133	SILICON ROHM	
	D407	1SS133	SILICON ROHM	
	D408	1SS133	SILICON ROHM	
	D409	1SS133	SILICON ROHM	
	D411	1SS133	SILICON ROHM	
	D412	1SS133	SILICON ROHM	
	D501	MTZ6.8JC	ZENER ROHM	
	D502	MTZ6.8JC	ZENER ROHM	
	D561	MTZ5.6JC	ZENER ROHM	
	D562	MTZ5.6JC	ZENER ROHM	
	D563	1SS133	SILICON ROHM	
	D564	1SS133	SILICON ROHM	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C295	QCF21HP-223	0.022MF 50V CERAMIC	
	C296	QCBB1HK-471	470PF 50V CERAMIC	
	C301	QETB1HM-475	4.7MF 50V ELECTRO	
	C302	QETB1HM-475	4.7MF 50V ELECTRO	
	C309	QCY21HK-101	100PF 50V CERAMIC	
	C310	QCY21HK-101	100PF 50V CERAMIC	
	C313	QETB1AM-107	100MF 10V ELECTRO	
	C314	QETB1AM-107	100MF 10V ELECTRO	
	C315	QFN81HJ-182	1800PF 50V MYLAR	
	C316	QFN81HJ-182	1800PF 50V MYLAR	
	C321	QFN81HJ-682	6800PF 50V MYLAR	
	C322	QFN81HJ-682	6800PF 50V MYLAR	
	C323	QETB1HM-475	4.7MF 50V ELECTRO	
	C324	QETB1HM-475	4.7MF 50V ELECTRO	
	C325	QETB1EM-226	22MF 25V ELECTRO	
	C326	QETB1EM-226	22MF 25V ELECTRO	
	C329	QCSB1HJ-560	56PF 50V CERAMIC	
	C330	QCSB1HJ-560	56PF 50V CERAMIC	
	C331	QFV81HJ-224	0.22MF 50V T.FILM	
	C351	QETB1EM-476	47MF 25V ELECTRO	
	C352	QETB1EM-476	47MF 25V ELECTRO	
	C355	QCF21HP-223	0.022MF 50V CERAMIC	
	C356	QCF21HP-223	0.022MF 50V CERAMIC	
	C357	QCF21HP-223	0.022MF 50V CERAMIC	
	C358	QCF21HP-223	0.022MF 50V CERAMIC	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C359	QCF21HP-223	0.022MF 50V CERAMIC	
	C360	QCF21HP-223	0.022MF 50V CERAMIC	
	C371	QETB1EM-106	10MF 25V ELECTRO	
	C372	QETB1EM-106	10MF 25V ELECTRO	
	C373	QETB1EM-106	10MF 25V ELECTRO	
	C374	QETB1EM-106	10MF 25V ELECTRO	
	C395	QETB1EM-106	10MF 25V ELECTRO	
	C396	QETB1EM-106	10MF 25V ELECTRO	
	C401	EEZ0603-108	1000MF ELECTRO	
	C402	QCZ0205-155	1.5MF 25V CERAMIC	
	C403	QETB1AM-107	100MF 10V ELECTRO	
	C404	QCF21HP-103	0.01MF 50V CERAMIC	
	C409	QETB1HM-225	2.2MF 50V ELECTRO	
	C410	QCY21HK-102	1000PF 50V CERAMIC	
	C431	QETB2AM-227	220MF 100V ELECTRO	
	C432	QFN81HJ-104	0.1MF 50V MYLAR	
	C437	QETB1HM-474	0.47MF 50V ELECTRO	
	C438	QFN81HK-102	1000PF 50V MYLAR	
	C439	QCZ0205-155	1.5MF 25V CERAMIC	
	C440	QCZ0205-155	1.5MF 25V CERAMIC	
	C441	QCF21HP-103	0.01MF 50V CERAMIC	
	C442	QCF21HP-103	0.01MF 50V CERAMIC	
	C443	QETB1CM-476	47MF 16V ELECTRO	
	C444	QETB1CM-476	47MF 16V ELECTRO	
	C445	QCS21HJ-470	47PF 50V CERAMIC	
	C446	QETB1EM-476	47MF 25V ELECTRO	
	C447	QCS21HJ-680	68PF 50V CERAMIC	
	C448	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C449	QETB1HM-475	4.7MF 50V ELECTRO	
	C501	QETB1EM-106	10MF 25V ELECTRO	
	C502	QETB1EM-106	10MF 25V ELECTRO	
	C503	QCS21HJ-470	47PF 50V CERAMIC	
	C504	QCS21HJ-470	47PF 50V CERAMIC	
	C507	QCBB1HK-101	100PF 50V CERAMIC	
	C508	QCBB1HK-101	100PF 50V CERAMIC	
	C509	QETB1CM-226	22MF 16V ELECTRO	
	C510	QETB1CM-226	22MF 16V ELECTRO	
	C511	QETB1HM-475	4.7MF 50V ELECTRO	
	C512	QETB1HM-475	4.7MF 50V ELECTRO	
	C513	QETB1CM-226	22MF 16V ELECTRO	
	C514	QETB1CM-226	22MF 16V ELECTRO	
	C515	QETB1HM-475	4.7MF 50V ELECTRO	
	C516	QETB1HM-475	4.7MF 50V ELECTRO	
	C521	QCY21HK-272	2700PF 50V CERAMIC	
	C522	QCY21HK-272	2700PF 50V CERAMIC	
	C523	QCS21HJ-471	470PF 50V CERAMIC	
	C524	QCS21HJ-471	470PF 50V CERAMIC	
	C525	QCY21HK-682	6800PF 50V CERAMIC	
	C526	QCY21HK-682	6800PF 50V CERAMIC	
	C527	QCY21HK-122	1200PF 50V CERAMIC	
	C528	QCY21HK-122	1200PF 50V CERAMIC	
	C529	QFN81HK-183	0.018MF 50V MYLAR	
	C530	QFN81HK-183	0.018MF 50V MYLAR	
	C531	QCY21HK-272	2700PF 50V CERAMIC	
	C532	QCY21HK-272	2700PF 50V CERAMIC	
	C533	QFN81HK-473	0.047MF 50V MYLAR	
	C534	QFN81HK-473	0.047MF 50V MYLAR	
	C535	QCY21HK-682	6800PF 50V CERAMIC	
	C536	QCY21HK-682	6800PF 50V CERAMIC	
	C537	QFN81HK-104	0.1MF 50V MYLAR	
	C538	QFN81HK-104	0.1MF 50V MYLAR	
	C539	QFN81HK-183	0.018MF 50V MYLAR	
	C540	QFN81HK-183	0.018MF 50V MYLAR	
	C541	QFV81HJ-274	0.27MF 50V T.FILM	
	C542	QFV81HJ-274	0.27MF 50V T.FILM	
	C543	QFN81HK-473	0.047MF 50V MYLAR	
	C544	QFN81HK-473	0.047MF 50V MYLAR	
	C545	QFV81HJ-684	0.68MF 50V T.FILM	
	C546	QFV81HJ-684	0.68MF 50V T.FILM	
	C547	QFN81HK-124	0.12MF 50V MYLAR	
	C548	QFN81HK-124	0.12MF 50V MYLAR	
	C551	QETB1HM-476	47MF 50V ELECTRO	
	C552	QETB1HM-476	47MF 50V ELECTRO	
	C553	QETB1HM-475	4.7MF 50V ELECTRO	
	C554	QETB1HM-475	4.7MF 50V ELECTRO	
	C557	QCF21HP-223	0.022MF 50V CERAMIC	
	C558	QCF21HP-223	0.022MF 50V CERAMIC	
	C559	QCF21HP-223	0.022MF 50V CERAMIC	
	C561	QETB1CM-476	47MF 16V ELECTRO	
	C562	QETB1CM-476	47MF 16V ELECTRO	
	C563	QCY21HK-472	4700PF 50V CERAMIC	
	C564	QCY21HK-472	4700PF 50V CERAMIC	
	C565	QETB1AM-107	100MF 10V ELECTRO	
	C567	QETB1AM-107	100MF 10V ELECTRO	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R323	QRD167J-561	560 1/6W CARBON	
	R324	QRD167J-561	560 1/6W CARBON	
	R325	QRD167J-393	39K 1/6W CARBON	
	R326	QRD167J-393	39K 1/6W CARBON	
	R327	QRD167J-474	470K 1/6W CARBON	
	R328	QRD167J-474	470K 1/6W CARBON	
	R329	QRD167J-471	470 1/6W CARBON	
	R330	QRD167J-471	470 1/6W CARBON	
	R331	QRD167J-104	100K 1/6W CARBON	
	R332	QRD167J-104	100K 1/6W CARBON	
	R333	QRD167J-473	47K 1/6W CARBON	
	R334	QRD167J-473	47K 1/6W CARBON	
	R337	QRD167J-221	220 1/6W CARBON	
	R338	QRD167J-221	220 1/6W CARBON	
⚠	R343	QRD14CJ-680S	68 1/4W UNF.CARBON	
⚠	R344	QRD14CJ-680S	68 1/4W UNF.CARBON	
	R351	QRD167J-471	470 1/6W CARBON	
	R352	QRD167J-471	470 1/6W CARBON	
	R353	QRD167J-471	470 1/6W CARBON	
	R354	QRD167J-471	470 1/6W CARBON	
	R355	QRD167J-471	470 1/6W CARBON	
	R356	QRD167J-471	470 1/6W CARBON	
	R357	QRD167J-471	470 1/6W CARBON	
	R358	QRD167J-471	470 1/6W CARBON	
	R359	QRD167J-471	470 1/6W CARBON	
	R360	QRD167J-471	470 1/6W CARBON	
	R361	QRD167J-471	470 1/6W CARBON	
	R362	QRD167J-471	470 1/6W CARBON	
	R363	QRD167J-471	470 1/6W CARBON	
	R364	QRD167J-471	470 1/6W CARBON	
⚠	R365	QRD14CJ-680S	68 1/4W UNF.CARBON	
⚠	R366	QRD14CJ-680S	68 1/4W UNF.CARBON	
⚠	R367	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R368	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R371	QRD167J-683	68K 1/6W CARBON	
	R372	QRD167J-683	68K 1/6W CARBON	
	R373	QRD167J-154	150K 1/6W CARBON	
	R374	QRD167J-154	150K 1/6W CARBON	
	R375	QRD167J-104	100K 1/6W CARBON	
	R376	QRD167J-104	100K 1/6W CARBON	
	R381	QRD167J-471	470 1/6W CARBON	
	R382	QRD167J-471	470 1/6W CARBON	
	R383	QRD167J-471	470 1/6W CARBON	
	R384	QRD167J-471	470 1/6W CARBON	
	R385	QRD167J-471	470 1/6W CARBON	
	R386	QRD167J-471	470 1/6W CARBON	
	R387	QRD167J-471	470 1/6W CARBON	
	R388	QRD167J-471	470 1/6W CARBON	
	R389	QRD167J-471	470 1/6W CARBON	
	R390	QRD167J-471	470 1/6W CARBON	
	R391	QRD167J-103	10K 1/6W CARBON	
	R392	QRD167J-512	5.1K 1/6W CARBON	
	R393	QRD167J-103	10K 1/6W CARBON	
	R394	QRD167J-512	5.1K 1/6W CARBON	
	R395	QRD167J-104	100K 1/6W CARBON	
	R396	QRD167J-104	100K 1/6W CARBON	
	R401	QRD167J-473	47K 1/6W CARBON	
	R402	QRD167J-473	47K 1/6W CARBON	
	R403	QRD167J-473	47K 1/6W CARBON	
	R404	QRD167J-104	100K 1/6W CARBON	
	R405	QRD167J-104	100K 1/6W CARBON	
	R406	QRD167J-473	47K 1/6W CARBON	
	R407	QRD167J-102	1K 1/6W CARBON	
	R408	QRD167J-473	47K 1/6W CARBON	
	R409	QRD167J-473	47K 1/6W CARBON	
	R410	QRD167J-473	47K 1/6W CARBON	
	R411	QRD167J-473	47K 1/6W CARBON	
	R412	QRD167J-473	47K 1/6W CARBON	
	R436	QRD167J-273	27K 1/6W CARBON	
	R437	QRD167J-153	15K 1/6W CARBON	
	R438	QRD167J-562	5.6K 1/6W CARBON	
	R439	QRD167J-103	10K 1/6W CARBON	
	R440	QRD167J-393	39K 1/6W CARBON	
	R441	QRD167J-152	1.5K 1/6W CARBON	
	R442	QRD167J-470	47 1/6W CARBON	
	R443	QRD167J-223	22K 1/6W CARBON	
	R444	QRD167J-223	22K 1/6W CARBON	
	R445	QRD167J-273	27K 1/6W CARBON	
	R446	QRD167J-682	6.8K 1/6W CARBON	
	R447	QRD167J-104	100K 1/6W CARBON	
	R448	QRD167J-220	22 1/6W CARBON	
	R449	QRD167J-104	100K 1/6W CARBON	
	R501	QRD167J-153	15K 1/6W CARBON	
	R502	QRD167J-153	15K 1/6W CARBON	
	R503	QRD167J-104	100K 1/6W CARBON	
	R504	QRD167J-104	100K 1/6W CARBON	
	R505	QRD167J-823	82K 1/6W CARBON	
	R506	QRD167J-823	82K 1/6W CARBON	
	R507	QRD167J-101	100 1/6W CARBON	
	R508	QRD167J-101	100 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R509	QRD167J-103	10K 1/6W CARBON	
	R510	QRD167J-103	10K 1/6W CARBON	
	R511	QRD167J-103	10K 1/6W CARBON	
	R512	QRD167J-103	10K 1/6W CARBON	
	R513	QRD167J-224	220K 1/6W CARBON	
	R514	QRD167J-224	220K 1/6W CARBON	
	R515	QRD167J-224	220K 1/6W CARBON	
	R516	QRD167J-224	220K 1/6W CARBON	
	R517	QRD167J-223	22K 1/6W CARBON	
	R518	QRD167J-223	22K 1/6W CARBON	
	R519	QRD167J-333	33K 1/6W CARBON	
	R520	QRD167J-333	33K 1/6W CARBON	
	R521	QRD167J-104	100K 1/6W CARBON	
	R522	QRD167J-104	100K 1/6W CARBON	
⚠	R531	QRD14CJ-680S	68 1/4W UNF.CARBON	
⚠	R532	QRD14CJ-680S	68 1/4W UNF.CARBON	
⚠	R535	QRD12CJ-221S	220 1/2W R.NETWORK	
⚠	R536	QRD14CJ-271S	270 1/4W UNF.CARBON	
	R537	QRD167J-681	680 1/6W CARBON	
	R538	QRD167J-272	2.7K 1/6W CARBON	
⚠	R561	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R562	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R563	QRD167J-272	2.7K 1/6W CARBON	
	R564	QRD167J-272	2.7K 1/6W CARBON	
	RA401	QRB169J-104	100K 1/10W R.NETWORK	
	RA402	QRB149J-104	100K 1/10W R.NETWORK	
	RA403	QRB055J-473	47K 1/8W R.NETWORK	
	RA501	QRB079J-474	470K 1/10W R.NETWORK	
	RA502	QRB079J-474	470K 1/10W R.NETWORK	

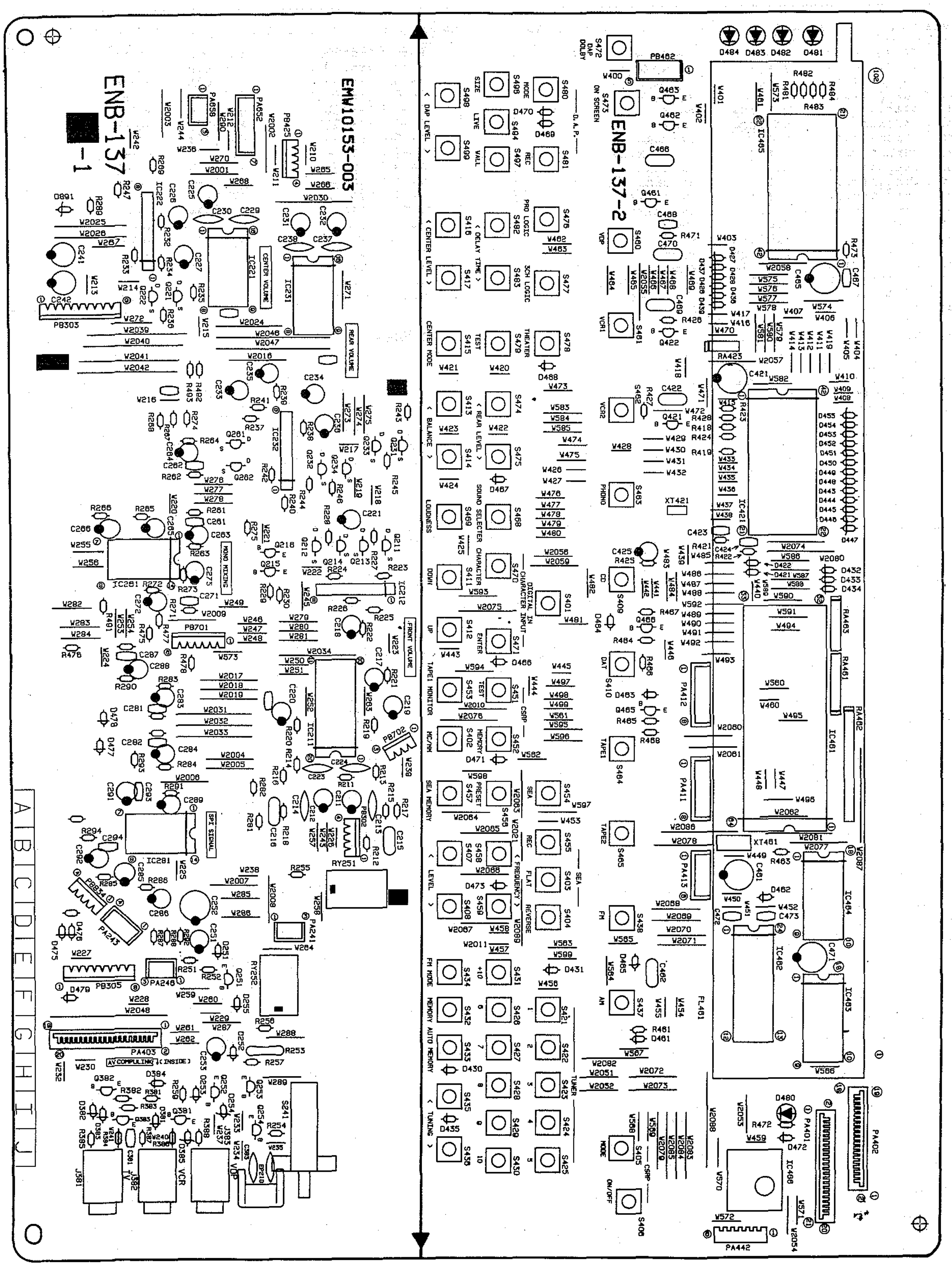
⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10148-103	CIRCUIT BOARD	
	J301	EMN00TV-209A	2P PIN JACK	
	J302	EMN00TV-608A	6P PIN JACK	
	J303	EMN00TV-608A	6P PIN JACK	
	J304	EMN00TV-608A	6P PIN JACK	
	J305	EMN00TV-608A	6P PIN JACK	
	P414	EMV7122-103	CONNECTOR(3PIN)	
	P415	EMV7122-103	CONNECTOR(3PIN)	
	EP401	E70859-001	EARTH PLATE	
	FW101	EWR38B-35KST	FLAT WIRE(8PIN)	
	FW103	EWR36B-25KST	FLAT WIRE(6PIN)	
	PA245	EMV5142-903	PLUG ASSY(3PIN)	
	PA302	EMV5109-004A	PLUG ASSY(4PIN)	
	PA303	EMV5142-909	PLUG ASSY(9PIN)	
	PA304	EMV5142-906	PLUG ASSY(6PIN)	
	PA305	EMV5142-908	PLUG ASSY(8PIN)	
	PA331	EMV5109-003A	PLUG ASSY(3PIN)	
	PA332	EMV5109-003A	PLUG ASSY(3PIN)	
	PA403	EMV7123-020	CONNECTOR(20PIN)	
	PA651	EMV5109-006A	PLUG ASSY(6PIN)	
	PA653	EMV5142-904	PLUG ASSY(4PIN)	
	PA654	EMV5142-907	PLUG ASSY(7PIN)	
	PB331	EWS293-0108	SOCKET WIRE(3PIN)	
	PB332	EWS293-0111	SOCKET WIRE(3PIN)	
	PB401	EMV7123-021	CONNECTOR(21PIN)	
	PB402	EMV7123-019	CONNECTOR(19PIN)	
	PB411	EMV5122-008R	PLUG ASSY(8PIN)	
	PB412	EMV5122-008R	PLUG ASSY(8PIN)	
	PB413	EMV5122-006R	PLUG ASSY(6PIN)	
	PB656	EWS32A-A925	SOCKET WIRE(10PIN)	
	XT401	ECX0060-000EM	RESONATOR	

⚠ : SAFETY PARTS

■ENB-137 F System & Volume Control PC Board Ass'y


ENB-137
-1
EMW10153-003
ENB-137-2
A
B
C
D
E
F
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J

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q211	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q212	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q213	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q214	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q215	DTA114YS	SILICON ROHM	
	Q216	DTC144ES	SILICON ROHM	
	Q221	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q222	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q231	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q232	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q233	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q234	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q251	DTA114YS	SILICON ROHM	
	Q252	DTC144ES	SILICON ROHM	
	Q253	DTC144ES	SILICON ROHM	
	Q254	2SC1740(R,S)	SILICON ROHM	
	Q261	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q262	2SK301(P,Q)	F.E.T MATSUSHITA	
	Q381	DTC114YS	SILICON ROHM	
	Q382	DTC144ES	SILICON ROHM	
	Q383	DTC114YS	SILICON ROHM	
	Q421	2SC1740S(R,S)	SILICON ROHM	
	Q422	2SC1740S(R,S)	SILICON ROHM	
	Q461	DTC114ES	SILICON ROHM	
	Q462	DTC114ES	SILICON ROHM	
	Q463	DTC114ES	SILICON ROHM	
	Q465	2SC1740S(R,S)	SILICON ROHM	
	Q466	2SC1740S(R,S)	SILICON ROHM	

⚠ : SAFETY PARTS

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC211	TC9177P	I.C. TOSHIBA	
	IC212	VC4580LD	I.C. DAINICHI	
	IC221	TC9176P	I.C. TOSHIBA	
	IC222	VC4580L	I.C. DAINICHI	
	IC231	TC9176P	I.C. TOSHIBA	
	IC232	VC4580L	I.C. DAINICHI	
	IC261	UPC324C	I.C. NEC	
	IC281	UPC324C	I.C. NEC	
	IC421	LC6514B-4131	I.C. SANYO	
	IC461	MN171202JPD	I.C. MATSUSHITA	
	IC462	TC74HC154AP	I.C. TOSHIBA	
	IC463	MSL915ARS	I.C. NIHON DENSO	
	IC464	MSL915ARS	I.C. NIHON DENSO	
	IC465	MSC7112-01SS	I.C. NIHON DENSO	
	IC466	GP1U501X	I.C. SHARP	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D251	1SS133	SILICON ROHM	
	D252	1SS133	SILICON ROHM	
	D253	1SS133	SILICON ROHM	
	D254	MTZ3.9JB	ZENER ROHM	
	D255	1SS133	SILICON ROHM	
	D381	1SS133	SILICON ROHM	
	D382	1SS133	SILICON ROHM	
	D383	1SS133	SILICON ROHM	
	D384	1SS133	SILICON ROHM	
	D385	MTZ6.2JC	ZENER ROHM	
	D421	1SS133	SILICON ROHM	
	D422	1SS133	SILICON ROHM	
	D426	1SS133	SILICON ROHM	
	D428	1SS133	SILICON ROHM	
	D430	1SS133	SILICON ROHM	
	D431	1SS133	SILICON ROHM	
	D432	1SS133	SILICON ROHM	
	D433	1SS133	SILICON ROHM	
	D434	1SS133	SILICON ROHM	
	D435	1SS133	SILICON ROHM	
	D436	1SS133	SILICON ROHM	
	D443	MTZ8.2JC	ZENER ROHM	
	D444	MTZ8.2JC	ZENER ROHM	
	D445	MTZ8.2JC	ZENER ROHM	
	D446	MTZ8.2JC	ZENER ROHM	
	D447	MTZ8.2JC	ZENER ROHM	
	D448	MTZ8.2JC	ZENER ROHM	
	D449	MTZ8.2JC	ZENER ROHM	
	D450	MTZ8.2JC	ZENER ROHM	
	D451	MTZ8.2JC	ZENER ROHM	
	D452	MTZ8.2JC	ZENER ROHM	
	D453	MTZ8.2JC	ZENER ROHM	
	D454	MTZ8.2JC	ZENER ROHM	
	D455	MTZ8.2JC	ZENER ROHM	
	D461	1SS133	SILICON ROHM	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D462	1SS133	SILICON ROHM	
	D463	1SS133	SILICON ROHM	
	D464	1SS133	SILICON ROHM	
	D465	1SS133	SILICON ROHM	
	D466	1SS133	SILICON ROHM	
	D467	1SS133	SILICON ROHM	
	D468	1SS133	SILICON ROHM	
	D469	1SS133	SILICON ROHM	
	D470	1SS133	SILICON ROHM	
	D471	1SS133	SILICON ROHM	
	D472	1SS133	SILICON ROHM	
	D473	1SS133	SILICON ROHM	
	D475	1SS133	SILICON ROHM	
	D476	1SS133	SILICON ROHM	
	D477	1SS133	SILICON ROHM	
	D478	1SS133	SILICON ROHM	
	D479	1SS133	SILICON ROHM	
	D480	SLR-54VC70F124	L.E.D. ROHM	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C211	QEK51HM-475	4.7MF 50V ELECTRO	
	C212	QEK51HM-475	4.7MF 50V ELECTRO	
	C213	QCS21HJ-181	180PF 50V CERAMIC	
	C214	QCS21HJ-181	180PF 50V CERAMIC	
	C215	QFN81HK-333	0.033MF 50V MYLAR	
	C216	QFN81HK-333	0.033MF 50V MYLAR	
	C217	QETB1HM-105	1MF 50V ELECTRO	
	C218	QETB1HM-105	1MF 50V ELECTRO	
	C219	QETB1EM-106	10MF 25V ELECTRO	
	C220	QETB1EM-106	10MF 25V ELECTRO	
	C221	QETB1HM-225	2.2MF 50V ELECTRO	
	C223	QCF21HP-223	0.022MF 50V CERAMIC	
	C224	QCF21HP-223	0.022MF 50V CERAMIC	
	C225	QEK51HM-475	4.7MF 50V ELECTRO	
	C226	QEK51HM-105G	1MF 50V ELECTRO	
	C227	QEK51EM-106	10MF 25V ELECTRO	
	C229	QCF21HP-223	0.022MF 50V CERAMIC	
	C230	QCF21HP-223	0.022MF 50V CERAMIC	
	C231	QEK51HM-475	4.7MF 50V ELECTRO	
	C232	QEK51HM-475	4.7MF 50V ELECTRO	
	C233	QEK51HM-105G	1MF 50V ELECTRO	
	C234	QEK51HM-105G	1MF 50V ELECTRO	
	C235	QEK51EM-106	10MF 25V ELECTRO	
	C236	QEK51EM-106	10MF 25V ELECTRO	
	C237	QCF21HP-223	0.022MF 50V CERAMIC	
	C238	QCF21HP-223	0.022MF 50V CERAMIC	
	C241	QEK51EM-476	47MF 25V ELECTRO	
	C242	QEK51EM-476	47MF 25V ELECTRO	
	C251	QETB1HM-475	4.7MF 50V ELECTRO	
	C252	QETB1EM-227	220MF 25V ELECTRO	
	C253	QETB1EM-106	10MF 25V ELECTRO	
	C263	QEK51HM-475	4.7MF 50V ELECTRO	
	C264	QEK51HM-475	4.7MF 50V ELECTRO	
	C265	QEK51HM-475	4.7MF 50V ELECTRO	
	C266	QEK51HM-475	4.7MF 50V ELECTRO	
	C272	QEK51HM-475	4.7MF 50V ELECTRO	
	C273	QEK51HM-475	4.7MF 50V ELECTRO	
	C281	QCSB1HJ-680	68PF 50V CERAMIC	
	C282	QCSB1HJ-680	68PF 50V CERAMIC	
	C283	QEK51HM-475	4.7MF 50V ELECTRO	
	C284	QEK51HM-475	4.7MF 50V ELECTRO	
	C285	QEK51HM-475	4.7MF 50V ELECTRO	
	C286	QEK51HM-475	4.7MF 50V ELECTRO	
	C287	QCSB1HJ-680	68PF 50V CERAMIC	
	C288	QEK51HM-475	4.7MF 50V ELECTRO	
	C289	QEK51HM-475	4.7MF 50V ELECTRO	
	C291	QETB1EM-476	47MF 25V ELECTRO	
	C292	QETB1EM-476	47MF 25V ELECTRO	
	C293	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C294	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C383	QCF21HP-103	0.01MF 50V CERAMIC	
	C421	QER40JM-337E	330MF 6.3V ELECTRO	
	C422	QCZ0205-155	1.5MF 25V CERAMIC	
	C423	QCBB1HK-101	100PF 50V CERAMIC	
	C424	QCBB1HK-101	100PF 50V CERAMIC	
	C425	QER51EM-475G	4.7MF 25V ELECTRO	
	C461	QER40JM-337E	330MF 6.3V ELECTRO	
	C462	QCZ0205-155	1.5MF 25V CERAMIC	
	C465	QER40JM-107E	100MF 6.3V ELECTRO	
	C466	QCZ0205-155	1.5MF 25V CERAMIC	
	C467	QCBB1HK-101	100PF 50V CERAMIC	
	C468	QCBB1HK-221	220PF 50V CERAMIC	
	C469	QCZ0205-155	1.5MF 25V CERAMIC	
	C470	QCZ0205-155	1.5MF 25V CERAMIC	
	C471	QER41HM-336E	33MF 50V ELECTRO	
	C472	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C473	QCHB1EZ-223	0.022MF 25V CERAMIC	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R211	QRD167J-104	100K 1/6W CARBON	
	R212	QRD167J-104	100K 1/6W CARBON	
	R213	QRD167J-563	56K 1/6W CARBON	
	R214	QRD167J-563	56K 1/6W CARBON	
	R215	QRD167J-105	1M 1/6W CARBON	
	R216	QRD167J-105	1M 1/6W CARBON	
	R217	QRD167J-563	56K 1/6W CARBON	
	R218	QRD167J-563	56K 1/6W CARBON	
	R219	QRD167J-102	1K 1/6W CARBON	
	R220	QRD167J-102	1K 1/6W CARBON	
	R221	QRD167J-105	1M 1/6W CARBON	
	R222	QRD167J-105	1M 1/6W CARBON	
	R223	QRD167J-103	10K 1/6W CARBON	
	R224	QRD167J-103	10K 1/6W CARBON	
	R225	QRD167J-103	10K 1/6W CARBON	
	R226	QRD167J-103	10K 1/6W CARBON	
	R227	QRD167J-103	10K 1/6W CARBON	
	R228	QRD167J-103	10K 1/6W CARBON	
	R229	QRD167J-753	75K 1/6W CARBON	
	R230	QRD167J-683	68K 1/6W CARBON	
	R232	QRD167J-105	1M 1/6W CARBON	
	R233	QRD167J-103	10K 1/6W CARBON	
	R234	QRD167J-302	3K 1/6W CARBON	
	R235	QRD167J-103	10K 1/6W CARBON	
	R236	QRD167J-103	10K 1/6W CARBON	
	R237	QRD167J-105	1M 1/6W CARBON	
	R238	QRD167J-105	1M 1/6W CARBON	
	R239	QRD167J-103	10K 1/6W CARBON	
	R240	QRD167J-103	10K 1/6W CARBON	
	R241	QRD167J-332	3.3K 1/6W CARBON	
	R242	QRD167J-332	3.3K 1/6W CARBON	
	R243	QRD167J-103	10K 1/6W CARBON	
	R244	QRD167J-103	10K 1/6W CARBON	
	R245	QRD167J-103	10K 1/6W CARBON	
	R246	QRD167J-103	10K 1/6W CARBON	
	R247	QRD167J-331	330 1/6W CARBON	
	R251	QRD167J-333	33K 1/6W CARBON	
	R252	QRD167J-104	100K 1/6W CARBON	
⚠	R253	QRD14CJ-680S	68 1/4W UNF.CARBON	
	R254	QRD167J-562	5.6K 1/6W CARBON	
	R255	QRD167J-100	10 1/6W CARBON	
	R256	QRD167J-100	10 1/6W CARBON	
	R257	QRD167J-182	1.8K 1/6W CARBON	
	R259	QRD167J-562	5.6K 1/6W CARBON	
	R261	QRD167J-104	100K 1/6W CARBON	
	R262	QRD167J-104	100K 1/6W CARBON	
	R263	QRD167J-105	1M 1/6W CARBON	
	R264	QRD167J-105	1M 1/6W CARBON	
	R265	QRD167J-104	100K 1/6W CARBON	
	R266	QRD167J-104	100K 1/6W CARBON	
	R267	QRD167J-103	10K 1/6W CARBON	
	R268	QRD167J-103	10K 1/6W CARBON	
	R269	QRD167J-331	330 1/6W CARBON	
	R271	QRD167J-104	100K 1/6W CARBON	
	R272	QRD167J-105	1M 1/6W CARBON	
	R273	QRD167J-104	100K 1/6W CARBON	
	R274	QRD167J-103	10K 1/6W CARBON	
	R275	QRD167J-103	10K 1/6W CARBON	
	R281	QRD167J-104	100K 1/6W CARBON	
	R282	QRD167J-104	100K 1/6W CARBON	
	R283	QRD167J-105	1M 1/6W CARBON	
	R284	QRD167J-105	1M 1/6W CARBON	
	R285	QRD167J-153	15K 1/6W CARBON	
	R286	QRD167J-153	15K 1/6W CARBON	
	R287	QRD167J-563	56K 1/6W CARBON	
	R288	QRD167J-563	56K 1/6W CARBON	
	R289	QRD167J-104	100K 1/6W CARBON	
	R290	QRD167J-105	1M 1/6W CARBON	
	R291	QRD167J-153	15K 1/6W CARBON	
	R292	QRD167J-563	56K 1/6W CARBON	
	R293	QRD167J-680	68 1/6W CARBON	
	R294	QRD167J-680	68 1/6W CARBON	
	R381	QRD167J-103	10K 1/6W CARBON	
	R382	QRD167J-103	10K 1/6W CARBON	
	R383	QRD167J-103	10K 1/6W CARBON	
	R385	QRD167J-221	220 1/6W CARBON	
	R387	QRD167J-221	220 1/6W CARBON	
	R388	QRD167J-221	220 1/6W CARBON	
	R418	QRD167J-471	470 1/6W CARBON	
	R419	QRD167J-103	10K 1/6W CARBON	
	R421	QRD167J-105	1M 1/6W CARBON	
	R422	QRD167J-152	1.5K 1/6W CARBON	
	R423	QRD167J-272	2.7K 1/6W CARBON	
	R424	QRD167J-473	47K 1/6W CARBON	
	R425	QRD167J-221	220 1/6W CARBON	
	R426	QRD167J-473	47K 1/6W CARBON	
	R427	QRD167J-223	22K 1/6W CARBON	
	R428	QRD167J-103	10K 1/6W CARBON	
	R461	QRD167J-100	10 1/6W CARBON	
	R463	QRD167J-103	10K 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R464	QRD167J-473	47K 1/6W CARBON	
	R465	QRD167J-223	22K 1/6W CARBON	
	R466	QRD167J-103	10K 1/6W CARBON	
	R467	QRD167J-471	470 1/6W CARBON	
	R468	QRD167J-103	10K 1/6W CARBON	
	R471	QRD167J-104	100K 1/6W CARBON	
	R472	QRD167J-221	220 1/6W CARBON	
	R473	QRD167J-273	27K 1/6W CARBON	
	R475	QRD167J-113	11K 1/6W CARBON	
	R476	QRD167J-113	11K 1/6W CARBON	
	R477	QRD167J-512	5.1K 1/6W CARBON	
	R478	QRD167J-512	5.1K 1/6W CARBON	
	R491	QRD167J-103	10K 1/6W CARBON	
	R492	QRD167J-103	10K 1/6W CARBON	
	R493	QRD167J-103	10K 1/6W CARBON	
	RA423	QRB049J-473	47K 1/10W R.NETWORK	
	RA463	QRB079J-104	100K 1/10W R.NETWORK	

⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10153-003	CIRCUIT BOARD	
		E306805-039	SPACER	
		E307579-001	SHIELD COVER	
		E307704-001	FL.DISPLAY HOLDE	
	J381	QMS3L10-0A0	MINI JACK	
	J382	QMS3L10-0A0	MINI JACK	
	J383	QMS3L10-0A0	MINI JACK	
	S241	QST9101-E06	PUSH SWITCH(FRONT.REAR OUT SW)	
	S402	ESP0001-018	TACT SWITCH(MC/MM)	
	S403	ESP0001-018	TACT SWITCH(SEA FLAT)	
	S404	ESP0001-018	TACT SWITCH(SEA REVERSE)	
	S405	ESP0001-018	TACT SWITCH(CSRP MODE)	
	S406	ESP0001-018	TACT SWITCH(CSRP)	
	S407	ESP0001-018	TACT SWITCH(SEA LEVELE -)	
	S408	ESP0001-018	TACT SWITCH(SEA LEVELE +)	
	S409	ESP0001-018	TACT SWITCH(CD)	
	S410	ESP0001-018	TACT SWITCH(DAT)	
	S411	ESP0001-018	TACT SWITCH(CHARA -)	
	S412	ESP0001-018	TACT SWITCH(CHARA +)	
	S413	ESP0001-018	TACT SWITCH(BAL L)	
	S414	ESP0001-018	TACT SWITCH(BAL R)	
	S415	ESP0001-018	TACT SWITCH(MODE 2)	
	S416	ESP0001-018	TACT SWITCH(CENTER -)	
	S417	ESP0001-018	TACT SWITCH(CENTER +)	
	S421	ESP0001-018	TACT SWITCH(1)	
	S422	ESP0001-018	TACT SWITCH(2)	
	S423	ESP0001-018	TACT SWITCH(3)	
	S424	ESP0001-018	TACT SWITCH(4)	
	S425	ESP0001-018	TACT SWITCH(5)	
	S426	ESP0001-018	TACT SWITCH(6)	
	S427	ESP0001-018	TACT SWITCH(7)	
	S428	ESP0001-018	TACT SWITCH(8)	
	S429	ESP0001-018	TACT SWITCH(9)	
	S430	ESP0001-018	TACT SWITCH(10)	
	S431	ESP0001-018	TACT SWITCH(+10)	
	S432	ESP0001-018	TACT SWITCH(MEMO)	
	S433	ESP0001-018	TACT SWITCH(AUTO MEMO)	
	S434	ESP0001-018	TACT SWITCH(FM MODE MUTE)	
	S435	ESP0001-018	TACT SWITCH(TUNE DOWN)	
	S436	ESP0001-018	TACT SWITCH(TUNE UP)	
	S437	ESP0001-018	TACT SWITCH(AM)	
	S438	ESP0001-018	TACT SWITCH(FM)	
	S451	ESP0001-018	TACT SWITCH(CSRP TEST)	
	S452	ESP0001-018	TACT SWITCH(CSRP MEMO)	
	S453	ESP0001-018	TACT SWITCH(CSRP MON)	
	S454	ESP0001-018	TACT SWITCH(SEA)	
	S455	ESP0001-018	TACT SWITCH(SEA REC)	
	S456	ESP0001-018	TACT SWITCH(SEA PRESET)	
	S457	ESP0001-018	TACT SWITCH(SEA MEMO)	
	S458	ESP0001-018	TACT SWITCH(SEA FREQ.-)	
	S459	ESP0001-018	TACT SWITCH(SEA FREQ.+)	
	S460	ESP0001-018	TACT SWITCH(VDP)	
	S461	ESP0001-018	TACT SWITCH(VCR 1)	
	S462	ESP0001-018	TACT SWITCH(VCR 2)	
	S463	ESP0001-018	TACT SWITCH(PHONO)	
	S464	ESP0001-018	TACT SWITCH(TAPE 1)	
	S465	ESP0001-018	TACT SWITCH(TAPE 2)	
	S468	ESP0001-018	TACT SWITCH(S.SELECT)	
	S469	ESP0001-018	TACT SWITCH(LOUD)	
	S470	ESP0001-018	TACT SWITCH(CHARA)	
	S471	ESP0001-018	TACT SWITCH(ENTER)	
	S472	ESP0001-018	TACT SWITCH(DAP/DOLBY)	
	S473	ESP0001-018	TACT SWITCH(ON SCREEN)	
	S474	ESP0001-018	TACT SWITCH(REAR -)	
	S475	ESP0001-018	TACT SWITCH(REAR +)	

⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	S476	ESP0001-018	TACT SWITCH(PRO LOGIC)	
	S477	ESP0001-018	TACT SWITCH(3CH LOGIC)	
	S479	ESP0001-018	TACT SWITCH(TEST)	
	S480	ESP0001-018	TACT SWITCH(DAP MODE)	
	S481	ESP0001-018	TACT SWITCH(DAP REC)	
	S482	ESP0001-018	TACT SWITCH(DELAY -)	
	S483	ESP0001-018	TACT SWITCH(DELAY +)	
	S496	ESP0001-018	TACT SWITCH(SIZE)	
	S497	ESP0001-018	TACT SWITCH(WALL)	
	S498	ESP0001-018	TACT SWITCH(DAP -)	
	S499	ESP0001-018	TACT SWITCH(DAP +)	
	EP210	E70225-001	EARTH PLATE	
	FL461	ELU0001-126	FL TUBE	
	PA241	EMV5109-003A	PLUG ASSY(3PIN)	
	PA243	EMV5142-904	PLUG ASSY(4PIN)	
	PA246	EMV5142-903	PLUG ASSY(3PIN)	
	PA401	EMV7123-021	CONNECTOR(21PIN)	
	PA402	EMV7123-019	CONNECTOR(19PIN)	
	PA403	EMV7123-020	CONNECTOR(20PIN)	
	PA411	EMV7124-008	CONNECTOR(8PIN)	

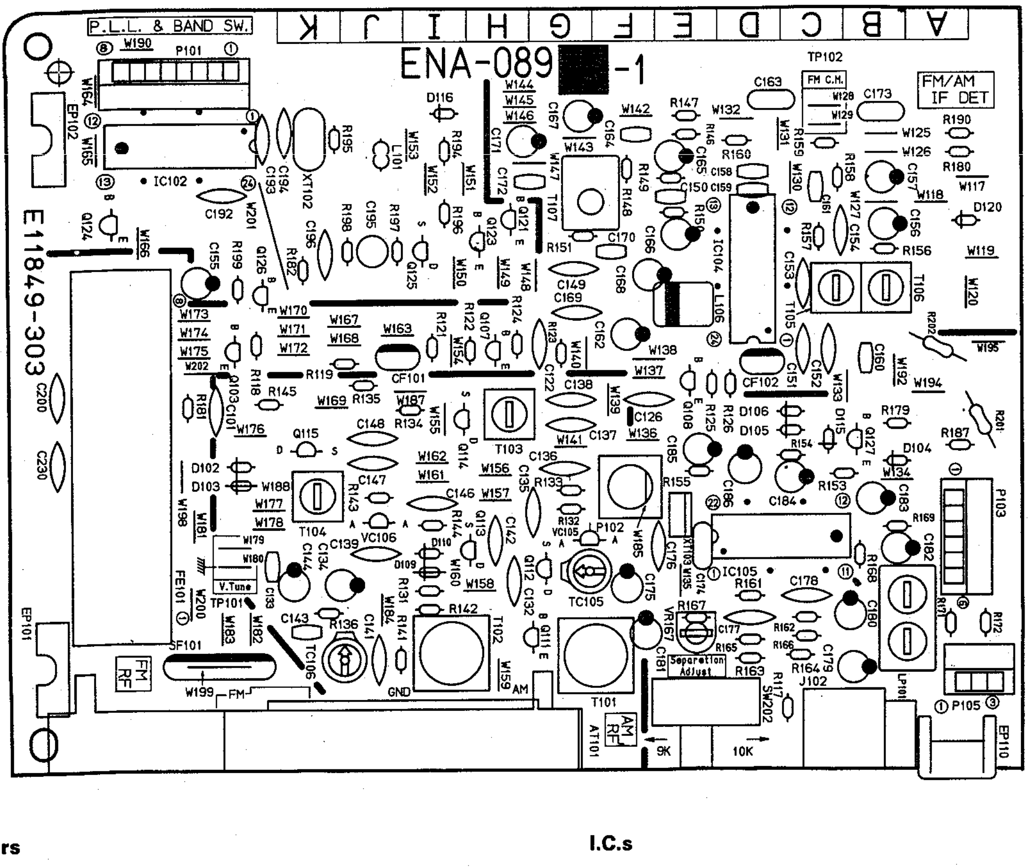
⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	PA412	EMV7124-008	CONNECTOR(8PIN)	
	PA413	EMV7124-006	CONNECTOR(6PIN)	
	PA442	VMC0194-P06	CONNECT TERMINAL(6PIN)	
	PA652	EMV5109-007A	PLUG ASSY(7PIN)	
	PB302	EWS294-0525	SOCKET WIRE(4PIN)	
	PB303	EWS329-A930	SOCKET WIRE(9PIN)	
	PB305	EWS328-A940	SOCKET WIRE(8PIN)	
	PB462	VMC0194-S05	FEMALE CONNECTOR(5PIN)	
	PB701	EWS296-0135	SOCKET WIRE(6PIN)	
	PB702	EWS293-0135	SOCKET WIRE(3PIN)	
	PB834	EWS324-A930	SOCKET WIRE(4PIN)	
	RY251	ESK5D12-214	RELAY	
	RY252	ESK5D12-214	RELAY	
	XT421	ECX0001-000KS	RESONATOR	
	XT461	ECX0060-000EM	RESONATOR	

⚠ : SAFETY PARTS

■ ENA-089 A Tuner PC Board Ass'y


P.L.L. & BAND SW.
K
J
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A
ENA-089 -1
FM/AM IF DET
TP102
FM C.M.
P101
IC102
IC104
IC105
E11849-303
EP101
EP102
EP110
FE101
SF101
FM RF
AM RF
V.Tune
TP101
GND
AM
FM
T101
T102
T103
T104
T105
T106
T107
TC105
TC106
CF101
CF102
VR167
Separation Adjust
SW202
9K
10K
J102
P103
P105
AT101
LP101

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q103	2SC461(B,C)	SILICON HITACHI	
	Q107	2SC535(B,C)	SILICON HITACHI	
	Q108	2SC461(B,C)	SILICON HITACHI	
	Q112	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q123	DTA114YS	SILICON ROHM	
	Q124	DTA114YS	SILICON ROHM	
	Q125	2SK301(Q2)	F.E.T MATSUSHITA	
	Q126	2SC458(D)	SILICON HITACHI	
	Q127	DTC144ES	SILICON ROHM	

⚠ : SAFETY PARTS

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D104	1SS119	SILICON HITACHI	
	D105	1SS119	SILICON HITACHI	
	D106	1SS119	SILICON HITACHI	
	D115	1SS119	SILICON HITACHI	
	D116	1SS119	SILICON HITACHI	
	D120	1SS119	SILICON HITACHI	
	VC105	SVC342(L)	VARICAP SANYO	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C149	QCF21HP-223	0.022MF 50V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QETB1EM-227	220MF 25V ELECTRO	
	C156	QETB1HM-475	4.7MF 50V ELECTRO	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCBB1HK-101	100PF 50V CERAMIC	
	C159	QCBB1HK-101	100PF 50V CERAMIC	
	C160	QCBB1HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QFN81HJ-332	3300PF 50V MYLAR	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFN81HK-223	0.022MF 50V MYLAR	
	C174	QFN81HK-473	0.047MF 50V MYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QCY21HK-102	1000PF 50V CERAMIC	
	C177	QCS21HJ-561	560PF 50V CERAMIC	
	C178	QCS21HJ-561	560PF 50V CERAMIC	
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1EM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	
	C186	QETB1HM-474	0.47MF 50V ELECTRO	
	C192	QCC21EM-473	0.047MF 25V CERAMIC	
	C193	QCS21HJ-180	18PF 50V CERAMIC	
	C194	QCS21HJ-180	18PF 50V CERAMIC	
	C195	QEN51HM-474	0.47MF 50V NON POLE	
	C196	QCY21HK-102	1000PF 50V CERAMIC	
	C200	QCF21HP-103	0.01MF 50V CERAMIC	
	C230	QCF21HP-103	0.01MF 50V CERAMIC	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R117	QRD167J-100	10 1/6W CARBON	
	R118	QRD167J-332	3.3K 1/6W CARBON	
	R119	QRD167J-221	220 1/6W CARBON	
	R121	QRD167J-391	390 1/6W CARBON	
	R122	QRD167J-272	2.7K 1/6W CARBON	
	R123	QRD167J-102	1K 1/6W CARBON	
	R124	QRD167J-681	680 1/6W CARBON	
	R125	QRD167J-332	3.3K 1/6W CARBON	
	R126	QRD167J-221	220 1/6W CARBON	
	R131	QRD167J-331	330 1/6W CARBON	
	R132	QRD167J-103	10K 1/6W CARBON	
	R133	QRD167J-473	47K 1/6W CARBON	
	R135	QRD167J-470	47 1/6W CARBON	
	R136	QRD167J-103	10K 1/6W CARBON	
	R146	QRD167J-560	56 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R147	QRD167J-103	10K 1/6W CARBON	
	R148	QRD167J-103	10K 1/6W CARBON	
	R149	QRD167J-223	22K 1/6W CARBON	
	R150	QRD167J-103	10K 1/6W CARBON	
	R151	QRD167J-224	220K 1/6W CARBON	
	R153	QRD167J-103	10K 1/6W CARBON	
	R154	QRD167J-103	10K 1/6W CARBON	
	R155	QRD167J-562	5.6K 1/6W CARBON	
	R156	QRD167J-822	8.2K 1/6W CARBON	
	R157	QRD167J-103	10K 1/6W CARBON	
	R158	QRD167J-183	18K 1/6W CARBON	
	R159	QRD167J-561	560 1/6W CARBON	
	R160	QRD167J-123	12K 1/6W CARBON	
	R161	QRD167J-124	120K 1/6W CARBON	
	R162	QRD167J-124	120K 1/6W CARBON	
	R163	QRD167J-332	3.3K 1/6W CARBON	
	R164	QRD167J-332	3.3K 1/6W CARBON	
	R165	QRD167J-184	180K 1/6W CARBON	
	R166	QRD167J-184	180K 1/6W CARBON	
	R168	QRD167J-103	10K 1/6W CARBON	
	R169	QRD167J-103	10K 1/6W CARBON	
	R171	QRD167J-682	6.8K 1/6W CARBON	
	R172	QRD167J-682	6.8K 1/6W CARBON	
	R179	QRD167J-562	5.6K 1/6W CARBON	
	R180	QRD167J-472	4.7K 1/6W CARBON	
	R181	QRD167J-222	2.2K 1/6W CARBON	
	R182	QRD167J-181	180 1/6W CARBON	
	R187	QRD167J-101	100 1/6W CARBON	
	R190	QRD167J-472	4.7K 1/6W CARBON	
	R194	QRD167J-472	4.7K 1/6W CARBON	
	R195	QRD167J-473	47K 1/6W CARBON	
	R196	QRD167J-103	10K 1/6W CARBON	
	R197	QRD167J-222	2.2K 1/6W CARBON	
	R198	QRD167J-332	3.3K 1/6W CARBON	
	R199	QRD167J-472	4.7K 1/6W CARBON	
⚠	R201	QRD145J-680S	68 1/4W UNF.CARBON	
⚠	R202	QRD145J-470S	47 1/4W UNF.CARBON	
	VR167	QVZ3518-104	100K 0.1W VARIABLE	

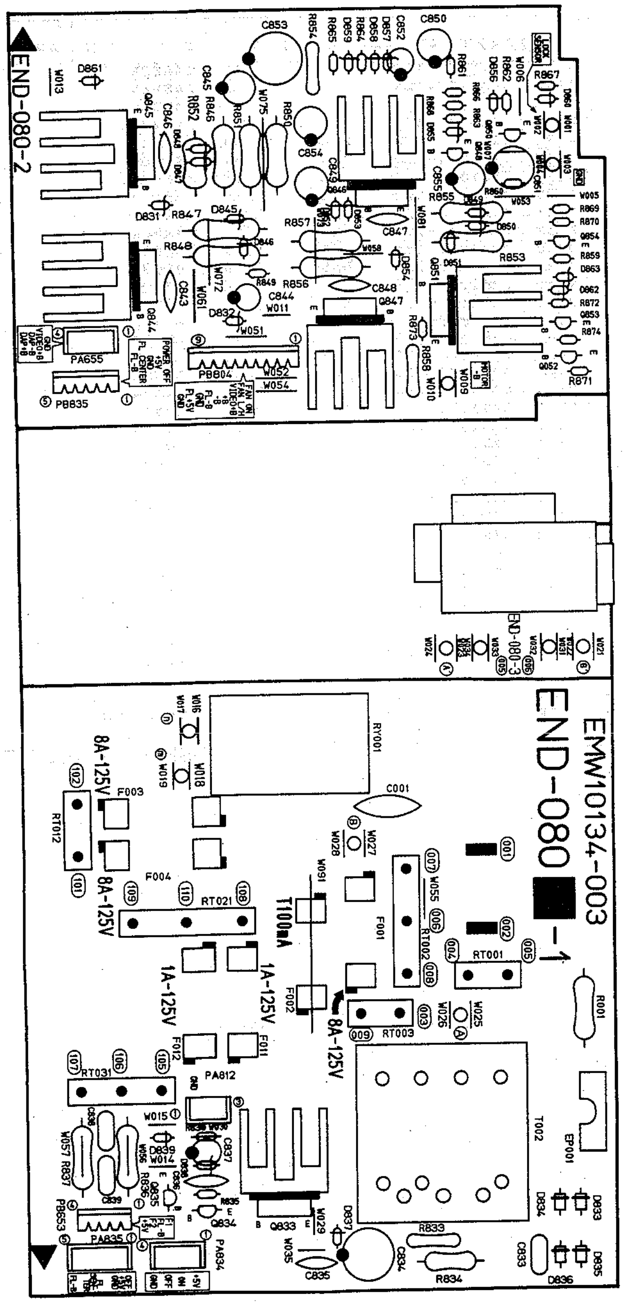
⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E11849-303(S)	CIRCUIT BOARD	
	J102	QMS3501-021	MINI JACK	
	L101	EQL4004-1R0	INDUCTOR	
	L106	EQL3001-102K	INDUCTOR	
	P101	EMV7112-008	CONNECTOR(8PIN)	
	P103	EMV7112-006	CONNECTOR(6PIN)	
	T101	EQR1111-014	AM RF COIL	
	T103	EQR1207-015	MW OSC COIL	
	T105	EQT2140-012	I.F. TRANSFORMER	
	T106	EQT2140-013	I.F. TRANSFORMER	
	T107	ECB1560-006	CERAMIC FILTER	
	AT101	EMB41YV-401K	ANTENNA TERMINAL	
	CF101	ECB2123-001R	CERAMIC FILTER	
	CF102	ECB2123-001R	CERAMIC FILTER	
	EP101	E70859-001	EARTH PLATE	
	EP102	E70859-001	EARTH PLATE	
	EP110	E70225-001	EARTH PLATE	
	FE101	EAF2204-001	FRONT END	
	LP101	EQF0101-002	LOW PASS FILTER	
	TC105	ENZ1003-006	TRIMMER	
	XT102	ECX0007-200KC	RESONATOR	
	XT103	ECX0000-456KR	RESONATOR	

⚠ : SAFETY PARTS

■END-080 H Power Supply PC Board Ass'y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END-080-3
EMW10134-003
END-080■-1
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8A-125V
8A-125V
1A-125V
1A-125V
T100mA
F001
F002
F003
F004
F011
F012
RT001
RT002
RT003
RT012
RT021
RT031
RY001
T001
T002
EP001
R001
C001
PA655
PB835
PB804
PA812
PB653
PA834
PA835
C833
C834
C835
C836
C837
C839
C843
C844
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C847
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C849
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C854
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W011
W013
W014
W015
W025
W026
W027
W028
W029
W035
W051
W052
W054
W056
W057
W058
W061
W072
W075
W081
W091

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q834	2SC2235(O,Y)	SILICON TOSHIBA	
	Q835	DTC143TS	SILICON ROHM	
	Q844	2SD1944(J,K)	SILICON ROHM	
	Q845	2SB1187(E,F)	SILICON ROHM	
	Q846	2SB1187(E,F)	SILICON ROHM	
	Q847	2SB1187(E,F)	SILICON ROHM	
	Q848	DTC144ES	SILICON ROHM	
	Q850	DTA114YS	SILICON ROHM	
	Q851	2SD2061(E,F)	SILICON ROHM	
	Q852	DTA144ES	SILICON ROHM	
	Q853	DTA144ES	SILICON ROHM	
	Q854	DTA144ES	SILICON ROHM	

⚠ : SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D833	11E2-TB2	SILICON NIHONINTER	
	D834	11E2-TB2	SILICON NIHONINTER	
	D835	11E2-TB2	SILICON NIHONINTER	
	D836	11E2-TB2	SILICON NIHONINTER	
	D838	RD6.2JSB3	ZENER NEC	
	D839	1SS133	SILICON ROHM	
	D845	MTZ16JC	ZENER ROHM	
	D846	1SS133	SILICON ROHM	
	D847	MTZ16JC	ZENER ROHM	
	D848	1SS133	SILICON ROHM	
	D849	MTZ20JC	ZENER ROHM	
	D850	MTZ16JC	ZENER ROHM	
	D851	1SS133	SILICON ROHM	
	D852	MTZ5.1JC	ZENER ROHM	
	D853	MTZ20JC	ZENER ROHM	
	D854	1SS133	SILICON ROHM	
	D855	MTZ20JC	ZENER ROHM	
	D856	1SS133	SILICON ROHM	
	D857	MTZ10JC	ZENER ROHM	
	D858	MTZ9.1JC	ZENER ROHM	
	D859	MTZ9.1JC	ZENER ROHM	
	D860	1SS133	SILICON ROHM	
	D861	1SS133	SILICON ROHM	
	D862	MTZ10JC	ZENER ROHM	
	D863	MTZ3.3JB	ZENER ROHM	

⚠ : SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	C001	QCZ9019-472	4700PF CERAMIC	
	C833	QFN82AK-473	0.047MF 100V MYLAR	
	C834	QETB1EM-477	470MF 25V ELECTRO	
	C836	QCF21HP-472	4700PF 50V CERAMIC	
	C837	QETB1CM-476	47MF 16V ELECTRO	
	C838	QFN81HK-473	0.047MF 50V MYLAR	
	C839	QFN81HK-473	0.047MF 50V MYLAR	
	C843	QCF21HP-472	4700PF 50V CERAMIC	
	C844	QEHB1EM-476	47MF 25V ELECTRO	
	C845	QEHB1EM-476	47MF 25V ELECTRO	
	C846	QCF21HP-472	4700PF 50V CERAMIC	
	C847	QCF21HP-472	4700PF 50V CERAMIC	
	C848	QCF21HP-472	4700PF 50V CERAMIC	
	C849	QEHB1HM-226	22MF 50V ELECTRO	
	C850	QETB1HM-476	47MF 50V ELECTRO	
	C851	QETB1EM-227	220MF 25V ELECTRO	
	C852	QETB1EM-476	47MF 25V ELECTRO	
	C853	QEHB1HM-227	220MF 50V ELECTRO	
	C854	QEHB1HM-226	22MF 50V ELECTRO	
	C855	QETB1HM-476	47MF 50V ELECTRO	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	R001	QRC128K-275EM	2.7M 1/2W COMPOSI	
⚠	R833	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R835	QRD167J-821	820 1/6W CARBON	
	R836	QRX022J-R68A	0.68 2W M.FILM	
	R837	QRX022J-R68A	0.68 2W M.FILM	
⚠	R846	QRG026J-271AF	270 2W O.M.FILM	
⚠	R847	QRG026J-151AF	150 2W O.M.FILM	
⚠	R848	QRG026J-151AF	150 2W O.M.FILM	
	R849	QRD167J-682	6.8K 1/6W CARBON	
⚠	R850	QRG026J-271AF	270 2W O.M.FILM	
⚠	R851	QRG026J-271AF	270 2W O.M.FILM	
⚠	R852	QRD125J-272	2.7K 1/2W UNF.CARBON	
⚠	R853	QRG022J-220A	22 2W O.M.FILM	
⚠	R854	QRD14CJ-180S	18 1/4W UNF.CARBON	
⚠	R855	QRG012J-562A	5.6K 1W O.M.FILM	
⚠	R856	QRG022J-101A	100 2W O.M.FILM	
⚠	R857	QRG022J-222A	2.2K 2W O.M.FILM	
⚠	R858	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R859	QRD167J-272	2.7K 1/6W CARBON	
	R860	QRD167J-473	47K 1/6W CARBON	
	R861	QRD167J-473	47K 1/6W CARBON	
	R862	QRD167J-102	1K 1/6W CARBON	
	R863	QRD167J-103	10K 1/6W CARBON	
	R864	QRD167J-270	27 1/6W CARBON	
	R865	QRD167J-270	27 1/6W CARBON	
	R866	QRD167J-102	1K 1/6W CARBON	
	R867	QRD167J-103	10K 1/6W CARBON	
	R868	QRD167J-103	10K 1/6W CARBON	
	R869	QRD167J-272	2.7K 1/6W CARBON	
	R870	QRD167J-473	47K 1/6W CARBON	

⚠ : SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R871	QRD167J-103	10K 1/6W CARBON	
	R872	QRD167J-103	10K 1/6W CARBON	
	R873	QRD167J-103	10K 1/6W CARBON	
	R874	QRD167J-103	10K 1/6W CARBON	

⚠ : SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMG7331-002	FUSE CLIP	
		EMG7331-002U	FUSE CLIP	
		EMW10134-003(S)	CIRCUIT BOARD	
⚠		ETP1000-42JA	POWER TRANSFORMER	
		EWS073-007	SOCKET WIRE	
		EWS102-006	SOCKET WIRE	
		E65654-001	INSULATION TUBE	
		E70945-H25B	HEAT SINK	
⚠		QMCA002-E02S	AC OUTLET	
		SBSE3010CC	SCREW	
	EP001	E70859-001	EARTH PLATE	
	KT001	EMZ4001-001	TAB	
	KT002	EMZ4001-001	TAB	
	PA655	EMV5142-904	PLUG ASSY(4PIN)	
	PA834	EMV5142-904	PLUG ASSY(4PIN)	
	PA835	EMV5142-905	PLUG ASSY(5PIN)	
	PB653	EWS324-A950	SOCKET WIRE(4PIN)	
	PB804	EWS329-A452	SOCKET WIRE(9PIN)	
	PB835	EWS325-A925	SOCKET WIRE(5PIN)	
	RT001	E67764-102	WRAPPING TERMINAL	
	RT002	E67764-203	WRAPPING TERMINAL	
	RT012	E67764-202	WRAPPING TERMINAL	
	RT031	E67764-103	WRAPPING TERMINAL	
⚠	RY001	ESK1D12-115	RELAY	

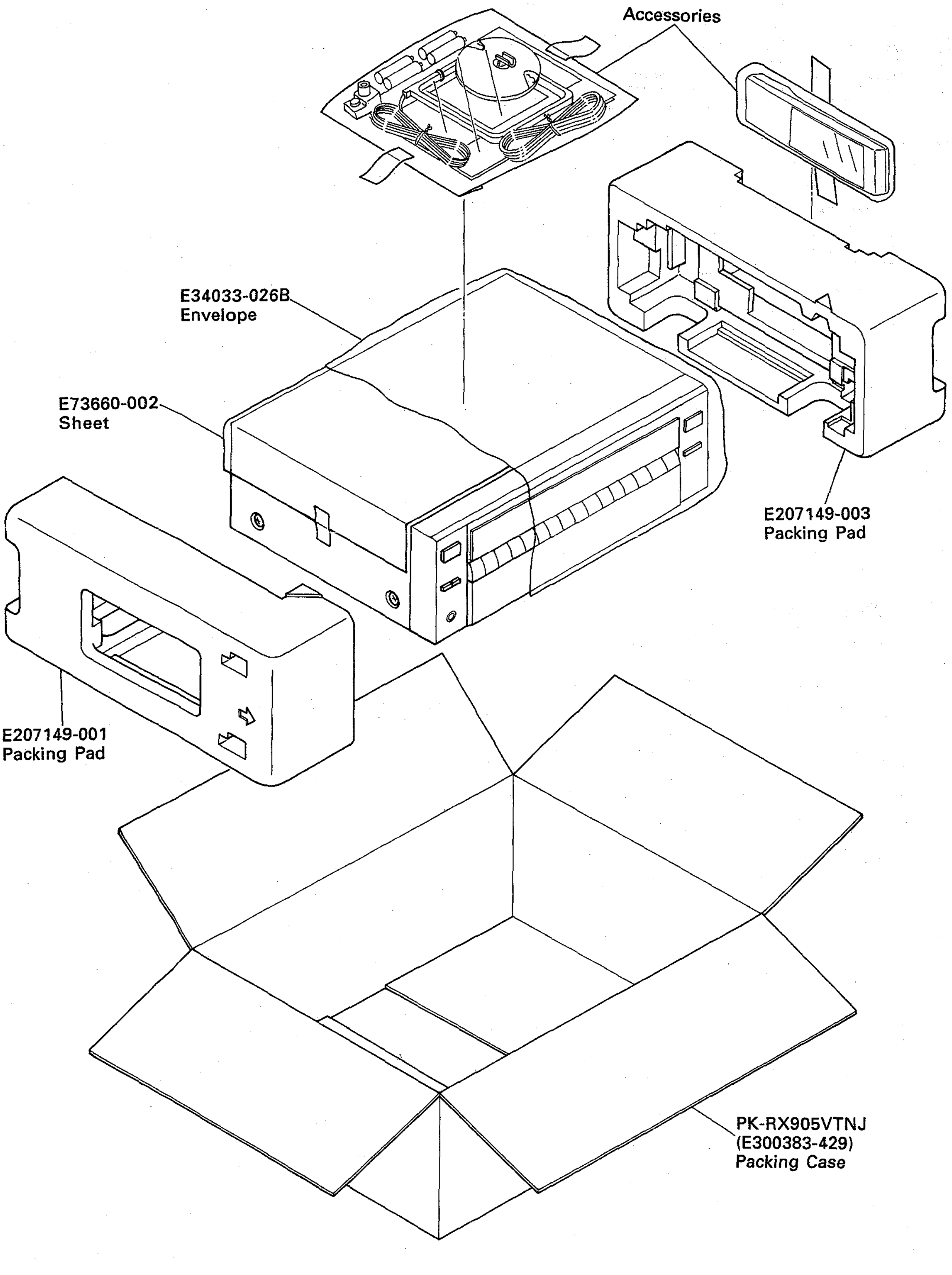
⚠ : SAFETY PARTS

Accessories List

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1773A	Instruction Book	1		
	BT-20044G	Safety Instruction Sheet	1		
	BT-20108A	Service Information	1		
	BT-20048E	Warranty Card	1		
	E66416-003	Envelope	1	for Warranty Card	
	EQB4001-012	AM Loop Antenna	1		
	E304084-001	Loop Stand	1		
	EWP502-005K	Built in Antenna	1		
	UM-4NJ-2PSA	Battery	1		
	RM-SR905U	Remote Controller	1		
	E41202-2	Envelope	1		

⚠: Safety Parts

Packing Materials and Part Numbers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Packing Pad
E207149-001
Packing Pad
PK-RX905VTNJ
(E300383-429)
Packing Case